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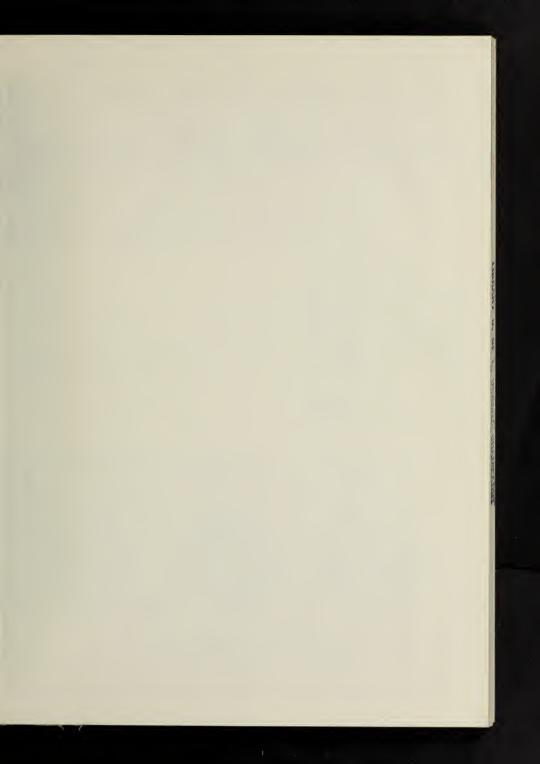
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PATIENTS IN MENTAL INSTITUTIONS: 1947

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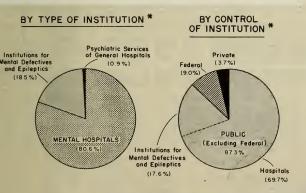
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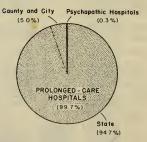
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g in all mental hospitals and institutions in-i, representing about 2 percent of the 661,356 in t the beginning of the year, mber of resident patients with mental disorders ear, more than 87 percent were in public insti-. Federal hospitals, 9 percent were in Federal 5 than 4 percent were in institutions operated charitable auspices. The 470,000 psychiatric mental hospitals were distributed as follows: 7 percent; county and city hospitals, 5.0 percent; sychopathic hospitals under State control, 0.3 or the relatively few patients in several State or the relatively few patients in several State itals, all public mental hospitals provide long-patients in their custody.

ED STATES, 1947



IN PUBLIC HOSPITALS ** (Excluding Federal)



- * Distribution of 674,982 Patients in Institutions at End of Year
- Distribution of 470,251 Patients in Public Hospitals at End of Year





FEDERAL SECURITY AGENCY, Public Health Service, National Institute of Mental Health

tember 1949

Washington 25, D. C.

Series MH-B50, No. 1

PATIENTS IN MENTAL INSTITUTIONS: 1947

and

ADMINISTRATIVE STATISTICS FOR PUBLIC MENTAL HOSPITALS: 1947

During 1947, an estimated total of more than 1,000,000 persons rere reported as receiving treatment by 934 hospitals or institutions offering treatment for psychiatric patients in the United tates. Since some of these persons were admitted to more than ne hospital or to the same hospital two or more times, about 1,40,000 patient transactions were reported.

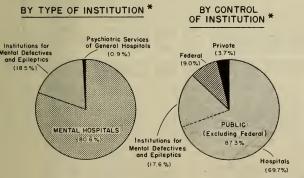
By the end of 1947, 674,982 persons, or 473.1 out of every 00,000 in the civilian population of the continental United States remained in mental hospitals or institutions as resident patients, of this number, \$43,726 persons or 381.1 per 100,000 population erer in mental hospitals, 125,123 persons or 87.7 per 100,000 opulation were in institutions for mental defectives and epileptics, and 6,133 or 4.3 per 100,000 population were in psychiatric servees of general hospitals. During the year, the number of resident

patients remaining in all mental hospitals and institutions increased by 13,626, representing about 2 percent of the 661,356 in such institutions at the beginning of the year.

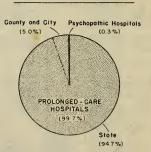
Of the entire number of resident patients with mental disorders at the end of the year, more than 87 percent were in public institutions other than Federal hospitals, 9 percent were in Federal hospitals, and less than 4 percent were in institutions operated under private or charitable auspites. The 470,000 psychiatric patients in public mental hospitals were distributed as follows: State hospitals, 94.7 percent, county and city hospitals, 5.0 percent; and specialized psychopathic hospitals under State control, 0.3 percent, the relatively few patients in several State psychopathic hospitals provide long-term care for the patients in their custody.

PATIENTS IN MENTAL INSTITUTIONS, UNITED STATES, 1947

DISTRIBUTION:



IN PUBLIC HOSPITALS ** (Excluding Federal)



- * Distribution of 674,982 Patients in Institutions at End of Year
- ** Distribution of 470,251 Patients in Public Hospitals at End of Year

The statistics presented here cover either the calendar year or the fiscal year ending in the calendar year and are based upon data furnished to the National Institute of Mental Health by the institutions or appropriate coordinating offices. The individual institutions or appropriate coordinating offices. The statistics on veterans' hospitals are adjusted figures based on tabulations prepared by the Division of Medical Research Statistics of the Veterans Administration and cover veteran neuropsychiatric patients under the care of the Veterans Administration in Federal hospitals of all types. The figures are substantially complete for public hospitals and institutions with the exception of county institutions. Although reports were not received from an appreciable number of the smaller private hospitals, institutions or psychiatric services, the overall coverage interms of resident patients, is estimated to be better than 95 percent complete.

Movement of Population, --Statistics on the movement of population present a formal accounting of the flow of patients in or out of institutions during the course of the year. Population movement involves four major categories: (1) patients on the books at the beginning of the year; (2) all admissions; (3) all separations; and (4) patients on the books at the end of the year. For any year the number of patients on the books at the beginning of the year plus the total number of admissions should equal the sum of all separations during the warms the number of their court has been accounted to the patients of the sum of all separations during the warms to be sumbered. the total humber of admissions should equal the sum of all separations during the year plus the number of patients on the books at the end of the year. The flow of mental patients in and out of hospitals is complicated by the transfer of patients from one hospital to another. Ideally, it would be preferable to eliminate all transfers from consolidated tables in order to approximate the all transfers from consolidated tables in order to approximate the number of persons under treatment during any one year. However, since in-transfers are always under-reported, this adjustment is exceedingly difficult and has therefore been postponed for more complete analysis in a later report.

Table 1 shows in a later report.

Table 1 shows in a novement of population for all mental institutions by type of hospital or institution. The chart facing table 1 presents graphically the movement of patients in all public mental hospitals (see column 3 of table 1). Public mental hospitals second for well over half the parallel strength of the provided the provided

and approximately 70 percent of all patients on the books at the

and approximately to percent of all patients on the books at the end of the year. I rapid turnover of patients in general hospitals, mental patients in public mental hospitals have a very slow rate of turnover since many mental patients proveto have a chronic type of disorder which necessitates their retention in hospital for several

disorder which necessitates their retention in hospital for several years. The patients accumulated from year to year gradually build up a semi-permanent hospital population.

Each succeeding year finds a consistently greater number of patients in public mental hospitals. While a constantly increasing number of beds has been provided for the care of such patients, at no time has the number of beds provided in the United States been sufficient to furnish adequate facilities for all patients. As additional construction is completed, there is usually a greater influx of patients than the facilities were intended to accommodate. Consequently, in a preponderance of States, there is almost always a certain amount of overcrowding.

Table 2 presents the basic data on the movement of population in public hospitals for mental diseases for the United States and for Divisions and States; due to limitations of space, totals for various categories have been eliminated.

Table 3 presents summary rates for the more important cate-

various categories have been eliminated.

Table 3 presents summary rates for the more important categories of patient movement shown in table 2, both as rates per 1,000 patients on the books during the year as well as per 100,000 of the estimated civilian population for July 1, 1947 by Divisions and States. For the United States, the rates per 1,000 patients on the books during the year as shown in table 3 are also presented in the chart on page 3 along with the additional components which make up the complete movement of population.

Reter per 100,000 conviction for patients on the books during

make up the complete movement of population.
Rates per 100,000 population for patients on the books during
the year, resident patients at the end of the year, and first admissions, as shown in table 3, provide a basis for making inferences concerning the extent to which the several States provide
care for their mentally fil. It would be desirable, of course, to
include in such rates all patients hospitalized in facilities of the
Veterans Administration, in private hospitals, and in psychiatric
services of general hospitals; for such patients, however, com-

TABLE 1 .-- MOVEMENT OF POPULATION, SUMMARY, FOR ALL MENTAL INSTITUTIONS, BY TYPE OF HOSPITAL OR INSTITUTION, BY CONTROL, FOR THE UNITED STATES:

INSTITUTIONS	ALL HOSPITALS.			MET	TAL H	OSPIT	ALS			PSYCHI- ATRIC		TIONS FOR	
AND MOVEMENT	SERVICES,			PU	BLIC		FEDE	RAL		SERVICES OF			
OF PATIENTS	INSTI- TUTIONS	Total	Total	State	County and City	Pay- cho- pathic	Vaterans	Other Federal	Private	GENERAL HOSPI- TALS	Totel	Public	Private
Number of Institutions ¹	934	628	304	195	93	16	122	5	197	103	203	94	109
All Patients on Books During Year	1,139,779	871,051	673,405	633,766	30,184	9,455	115,742	16,733	65,131	111,999	156,729	148,888	7,841
Patients on Books at Beginning of Year	757,759	610,252	533,053	506,778	25,012	1,263	54,198		14,042		141,759		6,495
In Hospital		533,003			23,459	952	48,235	8,515	12,405	5,748	122,605		6,327
In Family Care	2,940										889	889	
Io Other Extramural Care	93,463	75,198	67,154	65,290	1,553	311	5,963	444	1,637		18,265	18,097	168
Admissions During Year	366, 473	246,881	131,855	119,508	4, 455	7,892	57,065	7,814	50,147	106,251	13,341	12,012	1,329
First Admissions	275,929	178,771	100,314	90,583	3,376	6,355	39,186	5,324	33,947			10,810	1,250
Readmissions	90,544	68,110	31,541	28,925	1,079	1,537	17,879	2,490	16,200	21,153	1,281	1,202	79
Io-Transfers	15,547	13,918	8,497	7,480	7 17	300	4, 479		942		1,629	1,612	17
Separations During Year	308,886	228,028	121.889	110,369	4,528	6,992	49,078	7,782		70,024	10,834	9,717	1,117
Discharges		179,919	78,154		2,288	6,858	47,310	7,262	47, 193	66,924	7,585	6,672	913
From Hospital		122,747	32,658	24,591	1,420	6,647	38,328	6,934	44,827	66,924	2,621	1,719	902
From Extramural Care	62,136		45,496	44, 417	868	211	8,982	328	2,366		4,964	4,953	11
Deaths	54,458	48,109	43,735	41,361	2,240	134	1,768	520	2,086	3,100	3,249	3,045 2,873	204
In Hospital In Extramural Care	53,349	47, 174	42,850	40,631	2,086	133	1,768	520	2,036 50	3,100	3,075	172	202
In Extramura: Care	1,109	935	885	730	154	1			50		174	172	2
Out-Transfers	57,801	19,945	10,912	9,409	619	884	7,223	14	1,796	² 35,842	2,014	1,876	138
Patients on Books at End of Yesr	773,092	623,078	540,604	513,988	25,037	1,579	59,441	8,977	14,056		143,881		6,586
In Hospital		543,726			23,643	1,243	52,505	8,595	12,375	6,133	125,123		6,420
In Family Care	3,177	2, 244	2, 244	2,244							933	933	
In Other Extramural Care	94,933	77,108	68,109	66,379	1,394	336	6,936	382	1,681		17,825	17,659	166

¹Coverage is substantially complete for all known mental huspitals and institutions; patients treated in Psychistric Services of General Hospitals are undersouwerated to an unknown degree; Veterans hospitalized in 89 non-mental as well as 33 neuropsychistric hospitals are included; psychistric patients treated in hospitals operated by the Armad Services are not included in the survey.

**Substantially all out-transfers from Psychistric Services of General Hospitals are admitted to public mental hospitals either as first or readmissions.

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parable data are not available by State of home residence for 1947. The statistics for public mental hospitals thus constitute the broadest base available for the purpose of making State comparisons.

Administrative Statistics, -- Statistics for public mental hospitals on overcrowding, administrative staff, and expenditures are reported in tables 4.5 and 6 reported by Tables 6 and 7 reported in

Administrative Staff. -- The adequacy of care received by patients in any hospital largely depends upon the availability of a well trained administrative staff. Data concerned solely with the number and types of personnel on duty in public mental hospitals in 1947 are shown in table 5 along with the ratio of the average number of patients served per full-time employee. For the United States, each full-time employee cared for an average of 5.7 patients

Page 3. Administrative Statistics. -- References to table 7 should read table 5. tiens, tens, te

Start and expenditures report data on about 3 percentiewer patients than tables 2, 3, and 4.

Overcrowding.—In table 4, the degree of overcrowding in public mental hospitals is indicated by the relation of the average daily resident-patient population to the normal capacity of the hospitals. The excess of population overly. While pormal capacity with the excess of population overly. While pormal capacity has not been defined uniformly from hospital to hospital, it is evident that beds have usually been crowded into space never intended to hold them. In 1947, the degree of overcrowding in public hospitals for mental disease in the United States was 16.7 percent; this contents with an average excess of patients over normal capacity of 16.3 percent in 1946. The greatest degree of overcrowding in 1947 was reported for Illinois, Louisiana, and Arizona with over 50 percent excess of population over normal capacity. Seven States reported a greater normal capacity than their average daily patient population; these were South Dakota, Nebraska, Delaware, Florida, Texas, Wyoming, and New Mexico. This does not necessarily mean that these latter States provided proportionately greater or more adequate facilities than their sister States (see last three columns of table 3) but merely that proportionately fewer patients were crowded into space available.

f more provided an administrative staff in accordance with standards recommended by the American Psychiatric Association. For specific occupations, the deficiencies were most marked for psychiatrists and assistant physicians, for graduate nurses and attendants, and for other professional personnel such as psychiatric social workers, clinical psychologists, and therapists.

Expenditures, --In table 6, statistics on expenditures, classified by purpose of the expenditure, are presented for public mental hospitals, by Divisions and States. The per capita expenditure for maintenance for public mental hospitals reporting such data for 1947 was \$545.60 compared with a figure of approximately \$430.13 in 1946. In contrast to the low per capita expenditure for maintenance of patients in public mental hospitals, the comparable figure for veterans cared for in neuropsychiatric hospitals of the Veterans Administration was approximately \$2,133 and for patients treated in private mental hospitals, an estimated \$2,500. Some of the variations apparent from the inter-state comparisons shown in table 6 may reflect geographic and fiscal year variations in the general price level. For the most part, however, the variations are believed to constitute a rough index of the type of care provided.

MOVEMENT OF PSYCHIATRIC PATIENTS, ALL PUBLIC HOSPITALS, FOR THE UNITED STATES, 1947

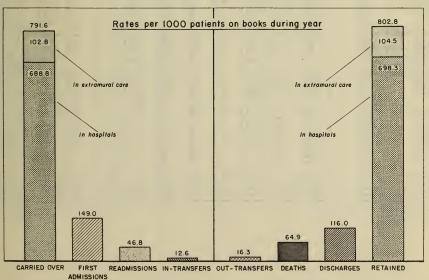


TABLE 2. --MOVEMENT OF POPULATION IN PUBLIC (EXCLUDING FEDERAL) HOSPITALS FOR MENTAL DISEASE, BY DIVISIONS AND STATES: 1947

(Statistics based on reports from 304 hospitals as follows: 195 State, 93 County and City, 16 Paychopathic)

		ENTS ON BO			SIONS G YEAR		5	SEPARATIONS	DURING YEAR	R .			IENTS ON BO	
DIVISION			In			In	Diach	arges	Dea	the	Out			In
AND STATE	In Hompital	In Family Care	Other Extra- mural Care	First Admis- sions	Re- admis- sions	Transfers	From Hospi- tsl	From Extra- nural Care	In Hospi- tal	In Extra- mural Care	Trensfers	In Hospital	In Family Care	Other Extra- mural Care
UNITED STATES	463,848	2,051	67,154	100,314	31,541	8,497	32,658	45,496	42,850	885	10,912	470,251	2,244	68,109
NEW ENGLAND	40,301	449	4,798	9,061	3,959	348	4,099	3,829	4,341	89	672	40,622	457	4,80
Maine	2,643		177	573	207	2	176	207	273		2	2,746	••	191
New Hampahire Vermont	2,356 1,093		356 17	659 268	257		180	530 72	286 128	- ::		2,408 1,123		1:
Massachusetts	23, 196	213	2.683	5.229	2, 412	316	2.803	1,858	2,365	56	649	23,312	210	2.79
Rhode Island	2,999	230	413	561	203	9	137	283	433	19	4	2,918	238	38:
Connecticut	8,014	6	1,152	1,771	740	21	803	879	856	14	17	8,115	9	1,01
MIDDLE ATLANTIC	129,460	1,029	14,691	22,460	7,273	1,948	4,536	11, 100	11,685	229	2.398	130.595	1.051	15. 26
New York	76,788	1,029	7,666	13,920	4,709	1,174	3,225	6,054	7,194	159	1,371	77,965	1,051	8, 26
New Jersey	17,347	••	2,258	3,816	1,297	312	1,311	1,610	1,920	70	416	17,491		2,21
Pennsylvania	35,325	••	4,767	4,724	1,267	462		3,436	2,571	••	611	35,139		4,78
EAST NORTH CENTRAL	95,832	365	13,707	20,776	6,823	2,465	9,088	8,047	8,789	224	2,942	97,260	498	13,12
Ohio	21,533		4,609	5,938	1, 136	1,435	2,242	2,496	1,788	27	1,360	22.334	2	4,40
Indianal	9,099		501	1,313	307	14	96	664	877	29	4	8,982		58
Illinois ²	33,066	182	2,645	7,591	3,393	170	4,291	2,479	3,453		203	33,530	231	2,86
Michigan Wisconsin	18,604 13,530	183	4,215	3,243 2,691	686 1,301	141 705	559 1,900	1,434	1,539 1,132	46 122	145	18,950 13,464	265	4,13
WISCONSIN	13,330			2,071		103		719	1,132	122		13,404		1,14
EST NORTH CENTRAL	44,048		6,029	7,332	1,670	521	1,667	3,588	3,802	149	639	43,822		5,93
Minnesota	10,535		2,007	1,974	401	348	368	1,216	1,094	45	348	10,420		1,77
Iowa Missouri	8,216 12,290		857 1,204	1,384	352 470	162	441 282	572 1.068	662 1.033	39 16	257	8, 109 12, 240		1,20
North Dakota	2,029	- ::	189	325	101		83	1,008	1,033	8		2,053		21
South Dakota	1,591		62	339	107		254	47	176			1.570		5:
Nebraska	4,320		581	725	119	3	139	374	288	12	2	4,381		55
Kansas	5,067		1,129	701	120	2	100	173	403	29	26	5,049	••	1,239
SOUTH ATLANTIC	49,115	208	8,624	11,370	3.984	592	2.589	6,686	4.529	58	1,288	50, 127	233	8.383
Delaware	1,242		289	345	91		125	144	115			1,270		31:
Maryland	7,116	208	1,142	1,314	522	99	301	917	581	10	55	7,170	229	1,13
Virginia West Virginia	9,692 4,407		1,922 928	2,145	1,421 510	119 165	1,150 510	1,390 954	1,041	36 6	147 163	9,528 4,530		2,00
North Carolina	7,542		1,676	1,659	336	194	124	1.093	659	2	311	7,819	4	1.39
South Carolina	4,836		900	1,286	346		252	767	498		"	4,928		92
Georgia	8,815		1,213	1,596	484		61	1,024	787			9,018		1,21
Florida	5,465		554	1,608	274	15	66	397	426	4	612	5,864		54
EAST SOUTH CENTRAL	23, 267		3,478	6,097	1,786	490	1,249	3,487	2,196	12	441	24,006	5	3,72
Kentucky	6,504		954	1,473	310	399	315	582	716	12	390	6,613	5	1,00
Tennesaee	6,825		455	1,734	431	91	860	438	539		51	7,181		46
Alabama	5,664		797	1,475	595		56	1,334	479 462			5,816		84
Miasiasippi	4,274		1,272	1,415	450		18	1,133	462			4,396		1,40
VEST SOUTH CENTRAL	32,353		6,490	8,655	2,632	74	3,553	4,110	2,746	63	382	32,733		6,61
Arkansas	4,725		1,874	1,516	534		254	1,265	670			4,759		1,70
Louisiana	6,761		1,474	1,356	258	7	153 529	773 826	531 515	12	3 50	6,788		1,59
Oklahoma Texas ³	7,393		620 2,522	1,309	608 1,232	10 57	2,617	1,246	1,030	2	329	7,382 13,804		2,68
lexas	15,414		2,322	4,414	1,232	31	2,011	1,240	1,000	*/		10,004		2,00
OUNTAIN	11,740		1,785	3,142	874	238	1,823	681	1,024	29	236	12,141		1,84
Montana	1,820		177	245	184	2	268 73	97	136 91		2	1,843		15:
Idaho Wyoming	1,061		62	223 113	46 59	2	40	69	60			594	- ::	59
Colorado	4,597		493	1,449	380	236	933	193	419	8	234	4,814		55
New Mexico	948		607	215	11		39	50	72	14		976		63
Arizona	1,229		223	457	86	(218	111	124	1		1,314		22
Utah	1,140 357		183	314 126	97		210 42	107 54	79 43			1,159		17
Nevada	357		40	126	11		42	34	9.3			332		
PACIFIC	37,732		7,552	11,421	2,540	1,821	4,054	3,968	3,738	32	1,914	38,945		8,41
					346	235	297	778	788	22	258	6,741		891
Washington Oregon	6,778 3,958		936 774	1,487 1,187	305	233	485	380	454	10	10	4, 040		85

 $\begin{array}{l} 1\\ \text{Indians State Hospital, estimated.}\\ 2\\ \text{Illinois Neuropsychiatric Institute, estimated.}\\ 3\\ \text{Runk State Hospital, estimated.} \end{array}$

TABLE 3.--SUMMARY RATES, MOVEMENT OF POPULATION, FOR PUBLIC (EXCLUDING FEDERAL) HOSPITALS FOR MENTAL DISEASE, BY DIVISIONS AND STATES: 1947

(Statistics based on 304 hospitals as follows: 195 State, 93 County and City, and 16 Psychopathic)

		RATE PER 1,00	O PATIENTS ON BOOKS	DURING YEAR ¹		RATE	PER 100,000 POPUL	TION ²
DIVISION AND STATE	First Admissions	Re- Admissions	All Discharges	All Deaths	Retained on Books End of Year	Patients on Books During Year	Resident Patients, End of Year	First Admissions
UNITED STATES	149.0	46.8	116.0	64.9	802.8	469.6	327.9	69.9
NEW ENGLAND STATES	153.8	67.2	134.6	75.2	778.8	646.4	445.7	99.4
Maine	159.1	57.5	106.3	75.8	817.3	407.5	310.6	64.8
New Hampshire	181.6	70.9	146.1	78.8	775.1	683.2	453.5	124.1
Vermont	176.5	92.3	166.0	84.3	749.7	415.9	307.7	73.4
Massachusetts	153.6	70.8	136.9	71.1	772.9	736.5	504.3	113.1
Rhode Island	127.1	46.0	95.1	102.4	801.6	596.6	394.3	75.8
Connecticut	151.3	63.2	143.7	74.3	780.5	594.1	411.9	89.9
MIDDLE ATLANTIC	127.0	41.1	88.4	67.4	830.7	605.3	446.9	76.9
New York	132.2	44.7	88.1	69.8	829.0	744.6	551.4	98.4
New Jersey	152.4	51.8	116.7	79.5	787.2	546.3	381.7	83.3
Pennsylvania	101.5	27.2	73.8	55.2	857.8	443.4	334.7	45.0
EAST NORTH CENTRAL	148.4	48.7	122.4	64.4	792.2	479.8	333.4	71.2
Ohio CENTRAL	171.4	32.8	136.7	52.4	771.6	451.9	291.3	77.4
Indiana	116.9	27.3	67.6	80.6	851.3	293.1	234.3	34.2
11linois	161.3	72.1	143 0	73.4	778.4	562.5	400.9	90.8
Michigan	119.8	25.3	73.6	58.5	862.5	446.8	312.8	53.5
Michigan Wisconsin	119.8	25.3 65.2	73.6	58.5 62.8	731.6	446.8 615.0	312.8 414.8	53.5 82.9
WEST NORTH CENTRAL	123.0	28.0	88.2	66.3	834.8	435.4	320.1 360.8	53.6
Minnesota	129.3	26.3	103.8	74.6	798.8	528.6	= 360.8	68.4
lowa	126.2	32.1	92.3	63.9	820.3	423.6	313.1	53.4
Missouri	118.8	29.6	85.2	66.2	848.3	406.4	313.8	48.3
North Dakota	122.9	38.2	83.6	58.2	858.2	488.7	379.5	60.1
South Dakota	161.5	51.0	143.4	83.9	772.7	365.0	273.0	59.0
Nebraska	126.1	20.7	89.2	52.2	858.2	448.4	341.7	56.6
Kansas	99.9	17.1	38.9	61.5	895.8	366.9	263.9	36.6
SOUTH ATLANTIC	153.9	53.9	125.5	62.1	795.0	387.8	263,1	59.7
Delaware	175.4	46.3	136.8	58.4	804.8	678.3	437.9	119.0
Maryland	126.3	50.2	117.1	56.8	820.8	492.7	339.6	62,2
Virginia	140.2	92.9	166.0	70.4	754.0	517.7	322.4	72.6
West Virginia	190.8	68.7	197.1	57.6	723.3	394.6	240.7	75.3
North Carolina	145.4	29.4	106.7	57.9	808.1	311.7	213.6	45.3
South Carolina	174.5	47.0	138.3	67.6	794.1	382.0	255.5	66.7
Georgia	131.8	40.0	89.6	65.0	845.4	388.8	289.6	51.2
Florids	203.1	34.6	58.5	54.3	809.9	347.2	257.2	70.5
EAST SOUTH CENTRAL	173.6	50.8	134.8	62.9	789.7	326.3	223.1	56.6
Kentucky	152.8	32.2	93.0	75.5	791.0	349.1	239.5	53.4
Tennessee	181.8	45.2	136.1	56.5	802.0	309.0	232.7	56.2
Alabama	172.9	69.7	162.9	56.2	780.9	301.8	205.7	52.2
Mississippi	190.9	60.8	155.3	62.3	782.4	355.1	210.6	67.8
WEST SOUTH CENTRAL	172.4	52.4	152.6	56.0	783.8	365.1	238.0	62.9
Arkansas	175.3	61.7	175.6	77.5	746.9	452.4	248.9	79.3
Louisians	137.6	26.2	94.0	55.1	850.6	388.8	267.8	53.5
Oklahoma	131.7	61.2	136.3	52.0	806.6	436.9	324.5	57.5
Texas	205.6	56.6	177.5	49.6	757.8	309.5	196.4	63.6
MOUNTAIN	176.7	49.2	140.8	59.2	786.6	408.6	279.0	70.5
Montana	108.9	81.9	119.2	60.5	819.5	408.6	378.4	72.2
Idaho	147.8							
	147.8	30.5	112.6	64.3	823.1	287.4	207.4	42.5
Colorado	202.5	53.1	132.6 157.4	59.7	794.4	316.2 634.9	226.5 427.2	43.5
								128.6
New Mexico	120.7	6.2	50.0	48.3	901.7	331.0	181.4	40.0
Arizona	229.1	43.1	164.9	62.7	772.4	313.2	206.3	71.7
Utah	181.1	55.9	182.8	45.6	771.6	271.8	181.7	49.2
Nevada	236.0	20.6	179.8	80.5	739.7	384.2	253.2	90.6
PACIFIC	187.0	41.6	131.4	61.7	775.6	450.6	287.4	84.3
Washington	152.0	35.4	109.9	82.8	780.9	421.8	290.7	64.1
Oregon	190.5	48.9	138.8	74.4	785.1	403.6	261.6	76.9

Lapacients on Books Daring Test' includes patients on books at beginning of year, all admissions during year, and all in-transfers.

2 Based on estimated civilian population, July 1, 1947.

TABLE 4.--NUMBER OF HOSPITALS, AVERAGE DAILY RESIDENT-PATIENT POPULATION AND NORMAL CAPACITY OF PUBLIC (EXCLUDING FEDERAL) HOSPITALS FOR MENTAL DISEASE, BY DIVISIONS AND STATES: 1947

(Statiatics based oo 304 hospitala as follows: 195 State, 93 County and City, and 16 Psychopathic)

		NUMBER OF	HOSPITAL	s	Total	Normal	EXCESS OF PO CAPACITY (ON	PULATION OVER /ERCROWDING) 1
DIVISION AND STATE	Total	State	County and City	Paychopathic	Average Daily Resident-Patient Population	Capacity of Hospitals	Number	Percent of Capacity
UNITED STATES	304	195	93	16	468,243	401,161	67,082	16.7
NEW ENGLAND	22	21		1	40,745	34,531	6,214	18.0
Maine New Hampshire	2	2		i ::	2,701 2,405	2,159 2,050	542 355	25.1 17.3
Vermont	i	î			1,104	858	246	28.7
Masaachusetts	14	13		1	23,475	19,512	3,963	20.3
Rhode 1sland Connecticut	3	1 3	1		2,970 8,090	2,700 7,252	270 838	10.0 11.6
MIDDLE ATLANTIC	50	42	6	2	130, 244	106,537	23.707	22.2
New York	22	21		1	77, 401	65,735	11,666	17.7
New Jersey	9 19	3 18	6	1	17, 465	13,331	4, 134	31.0
Pennaylvania	19	16		1	35,378	27, 471	7,907	28.8
EAST NORTH CENTRAL	85	40	38	7	96,621	79,158	17,463	22.1
Ohio Indiana	18 6	12		6	22,086 9,043	19,649 9,040	2,437	12.4
Illinois	12	11	-:-	1	33,008	21,984	11,024	50.1
Michigan	8	8			18,974	15, 264	3,710	24.3
Wiaconain	41	3	38		13,510	13,221	289	2.2
WEST NORTH CENTRAL	71	24	46	1	44,052	41,517	2,535	6.1
Mionesota	7	7	7.7	-:	10,493	10,365	128	1.2
Iowa Misaouri	51 5	5	45 1	1	8,168 12,307	6,684 11,268	1,484 1,039	22.2 9.2
North Dakota	1	1			2,046	2,000	46	2.3
South Dakota	1	1			1,636	1,888	-252	-13.3
Nebraaka Kanasa	3	3 3	-:-	-:	4,338 5,064	4, 356 4, 956	-18 108	-0.4 2.2
SOUTH ATLANTIC	23	. 22		1	49,516	44, 449 1, 290	5,067 -30	11.4
Delaware Maryland	4	4			1,260 7,104	6,322	782	12.4
Virginia	5	5			9,609	8,300	1,309	15.8
West Virginia	5 3	5	-:-		4, 485 7, 578	3,670 7,423	815 155	22.2
North Carolina South Carolina	1	1			4,842	4,652	190	4.1
Georgia	1	1			8,895	6,500	2,395	36.8
Florida	2	2			5,743	6,292	-549	-8.7
EAST SOUTH CENTRAL	14	11	2	1	23,639	22, 140	1, 499 312	6.8
Kentuck y Tennesaee	4 6	4 3	2	i	6,612 6,967	6,300 6,290	677	10.8
Alabama	2	2			5,732	5,700	32	0.6
Mississippi	2	2			4,328	3,850	478	12.4
WEST SOUTH CENTRAL	14	13		1	33,076	30,121	2,955	9.8
Arkansaa	1 2	1 2	-:	::	4,770 6,895	4,759 4,361	2.534	0.2 58.1
Louisiana Oklahoma	4	4			7,675	7,100	575	8.1
Texas	. 7	6		1	13,736	13,901	-165	-1.2
MOUNTAIN	10	9		1	12,069	10,302	1,767	17.2
Montana	1	1			1,831	1,500	331	22.1
ldaho	2	2		I ::	1,088	1,080 650	8 -2	0.7
Wyoming	1 2	1		1	4,746	3,836	910	23.7
New Mexico	1	1		••	975	1,000	- 25	-2.5
Arizona	1	1		-:-	1,275 1,152	850 1,086	425 66	50.0 6.1
Utah Nevada	1	1	::	-:-	354	300	54	18.0
PACIFIC	15	13	1	1	38,281	32, 406	5,875	18.1
Washington	3	3	••		6,826	5,600	1,226	21.9
Oregon Californis	2 10	2 8		1	4, 046 27, 409	3,610 23,196	436 4, 213	12.1
Calliornis	10				21,409	23, 170	4,210	1012

 $^{^{1}\}mathrm{A}$ minus sign (-) denotes excess of capacity over popolation.

TABLE 5.--ADMINISTRATIVE STAFF, FULL-TIME, OF PUBLIC HOSPITALS FOR MENTAL DISEASE, BY OCCUPATION, BY DIVISIONS AND STATES: 1947

(Statistics based on reports from 248 hospitals as follows: 186 State, 47 County and City, 15 Psychopathic)

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DIVISION AND STATE	TOTAL.	Super- inten- dents and Physi- cisns	Pay- cholo- gists and Pay- chome- trists	Den- tists	Destal Assist- anta	Phar- us- cists	Clinical Assist- ants	Labora- tory and X-ray Techni- cians	Gradu- ate Nurses	Other Nurses and Atten- dants	Thers- pists and Assist- ants	Dieti- tiana	Social Workers and Field Workers	Stav- ards	Clerical Em- ployees	Other Em- ployees	Average Daily Resi- dent Patient Popula- tion1	Ratio ²
UNITED STATES	79,849	2,004	161	192	105	144	35	468	3, 165	43,434	1,989	203	659	313	3,696	23,281	454,857	5.7
NEW ENGLAND Maine New Hampshire Vermont Massachuaetts Rhode Island Connecticut	7,897 488 660 203 4,445 475 1,626	211 12 13 6 123 15 42	34 2 3 13 2 14	20 1 13 1 5	13 2 1 7 3	15 1 1 11 2	10 2 8	52 3 2 28 7 12	480 15 46 5 286 31 97	3,645 235 331 97 2,022 239 721	228 8 18 7 124 8 63	20 1 1 10 3 5	58 2 5 1 37 4 9	46 3 2 3 22 2 14	461 24 40 7 249 34 107	2,604 182 196 75 1,498 129 524	40,745 2,701 2,405 1,104 23,475 2,970 8,090	5.2 5.5 3.6 5.4 5.3 6.2 5.0
MIDDLE ATLANTIC New York New Jersey Pennsylvania	26,781 16,792 3,911 6,078	678 426 108 144	40 18 6 16	58 38 7 13	44 31 3 10	45 27 7 11	5 2 3	150 78 38 34	1,655 1,150 170 335	14, 200 9, 371 1, 742 3, 087	834 555 139 140	75 37 11 27	261 168 49 44	53 23 8 22	1,283 750 253 280	7,400 4,120 1,368 1,912	128,349 77,401 17,465 33,483	4.8 4.6 4.5 5.5
EAST NORTH CENTRAL Ohio Indiana Illinois Michigan Wisconsin	16,143 4,328 1,072 5,641 2,907 2,195	402 82 24 155 61 80	40 14 16 10	45 9 4 15 6 11	. 14 4 9 1	28 4 2 13 6 3	18 2 2 9 5	103 21 3 53 20 6	422 170 11 96 92 53	8,594 2,653 602 2,567 1,467 1,305	391 79 12 189 72 39	35 6 1 7 6	173 23 4 103 38 5	76 43 3 8 15 7	794 149 42 326 197 80	5,008 1,069 362 2,084 908 585	91,603 22,086 8,712 32,532 14,763 13,510	5.7 5.1 8.1 5.8 5.1 6.2
WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	6, 478 1, 468 1,045 1,930 268 285 920 562	144 31 34 32 5 8 20 14	8 3 2 1 1 1	16 5 1 2 1 1 4 2	10 2 3 1 1 3	15 1 4 6 1 2 1	1	35 9 9 11 2 1 3	169 92 12 28 2 1 25 9	3,694 859 474 1,162 165 147 583 304	112 32 17 30 5 1 24 3	13 1 4 7 1	21 2 11 6 2	31 12 8 5 3 3	253 55 57 71 6 14 34 16	1,956 367 410 565 79 111 215 209	42,384 10,493 6,500 12,307 2,046 1,636 4,338 5,064	6.5 7.1 6.2 6.4 7.6 5.7 4.7 9.0
SOUTH ATLANTIC Delaware Waryland Virginia West Virginia North Carolina South Carolina Georgia Florida	7,176 211 981 1,325 577 1,143 775 1,026 1,138	164 12 37 23 22 22 22 12 17 19	10 2 2 2 3 1 1 	18 2 3 1 3 1 2 6	7 2 5	8 1 1 1 2 1 1		45 2 5 5 4 6 5 7 11	145 13 6 23 12 28 18 21 24	4, 044 102 608 845 321 632 342 622 572	93 9 13 11 23 21 5 8 3	17 2 1 4 4 3 1 1	37 3 19 2 7 4 1	34 1 8 4 6 6 2 2 2 5	289 19 50 65 33 30 24 21 47	2, 265 45 229 337 142 385 363 321 443	49,516 1,260 7,104 9,609 4,485 7,578 4,842 8,895 5,743	6.9 6.0 7.2 7.2 7.8 6.6 6.2 8.7 5.0
EAST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi	2,845 900 558 754 633	77 27 18 12 20	2 1 1	4 1 2 1	4 2 1 1	7 2 1 2 2	1 1 	14 2 7 4 1	45 14 15 8 8	1,661 510 347 461 343	63 26 3 6 28	6 1 3 1	6 2 1 3	10 5 1 3 1	92 33 18 26 15	853 274 141 229 209	21,127 6,612 4,455 5,732 4,328	7.4 7.3 8.0 7.6 6.8
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas	4,376 911 948 910 1,607	100 12 16 19 53	3 1 1 1	9 2 2 1 4	4 1 1 2	11 1 2 3 5	-	19 4 2 4 9	50 10 12 8 20	2,466 528 501 540 897	90 9 16 17 48	14 1 1 4 8	20 1 2 2 2 15	17 2 6 9	171 28 50 35 58	1,402 312 342 270 478	30,783 4,770 6,895 7,675 11,443	7.0 5.2 7.3 8.4 7.1
WOUNTAIN Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	2,614 333 162 90 1,193 287 268 230 51	76 6 5 43 5 6 4	3 2 1 	4 1 2 1	3 1 1 1	2 1 1 		17 2 1 10 1 1 2	70 8 3 3 40 5 3 7	1,545 208 86 62 658 182 156 158 35	36 7 2 11 6 7 3	17 1 1 13 1 1	17 3 2 9 1 2	11 2 1 1 2 2 2 1	110 14 11 4 47 16 10 6 2	703 78 50 14 355 70 81 44	12,069 1,831 1,088 648 4,746 975 1,275 1,152 354	4.6 5.5 6.7 7.2 4.0 3.4 4.8 5.0 6.9
PACIFIC Washington Oregon California	5,539 1,157 636 3,746	152 25 18 109	21 2 4 15	18 3 2 13	6 2 4	13 3 1 9	=======================================	33 7 2 24	129 35 20 74	3,585 675 416 2,494	142 ?4 10 108	6 1 1 4	66 7 2 57	35 7 2 26	243 52 16 175	1,090 314 142 634	38, 281 6, 826 4,046 27, 409	6.9 5.9 6.4 7.3

Includes only population of State, City and County, and Psychopathic hospitals reporting administrative staff. Excludes Iows county homes. Represents number of patients per full-time employee. Based on average daily resident-patient population.

TABLE 6.--EXPENDITURES, TOTAL AND PER CAPITA, OF PUBLIC (EXCLUDING FEDERAL) HOSPITALS FOR MENTAL DISEASE, BY PURPOSE OF EXPENDITURE, BY DIVISIONS AND STATES: 1947

(Statistics based on 248 hospitals as follows: 186 State, 47 County and City, 15 Psychopathic)

		ics based on 2		RES FOR MA			Additions,	Average	
DIVISION AND STATE	TOTAL EXPENDITURES	Total	Salaries and Wages	Purchased Provisions	Fuel, Light and Water	Other Maintenance	Improve- ments, and Other Ex- penditures	Daily Resident- Patient Population	Per Capita Expenditures for Maintenance
UNITED STATES	\$264,510,810	\$248,170,581	\$132,765,673	\$61,449,204	\$16,075,116	\$37,880,588	\$16,340,229	454,857	545.60
NEW ENGLAND	25,055,909	23, 962, 162	12,927,811	5, 513, 133	1,908,937	3,612,281	1,093,747	40,745	588.10
Maine	1,490,679	1, 484, 164	732,254	440,020	123,989	187,901	6,515	2,701	549.49
New Hampshire	1,888,850	1,666,309	889,020	367,214	146, 104	263,971	222,541	2,405	692.85
Vermont	924,458	571,346	302,273	106,477	43,386	119,210	353,112	1,104	517.52
Massachusetts Rhode Island	14,109,565 1,190,355	13,934,882	7,720,042	2,949,991	1,249,405	2,015,444	174,683	23, 475	593.60 392.90
Connecticut	5,452,002	1,166,915 5,138,546	639, 178 2,645,044	356,971 1,292,460	2,949 343,104	167,817 857,938	23, 440 313, 456	2,970 8,090	635. 17
MIDDLE ATLANTIC	85,715,719	83,897,646	51,209,351	18, 189, 487	5,312,595	9,186,213	1,818,073	128,349	653.67
New York	55,259,999	54, 366, 524	35, 124, 052	11,446,605	3,255,458	4,540,409	893, 475	77,401	702.40
New Jersey	11,465,110	11, 277, 894	6,617,260	2,050,749	689,252	1,920,633	187,216	17,465	645.74
Pennsylvania	18,990,610	18,253,228	9,468,039	4,692,133	1,367,885	2,725,171	737,382	33,483	545.15
EAST NORTH CENTRAL	59,800,739	55, 265, 498	28,778,560	14,287,038	3,686,414	8,513,486	4,535,241	91,603	603.32
Ohio	14,039,832	12,390,267	6,862,709	2,866,677	967,911	1,692,970	1,649,565	22,086	561.00
Indiana Illinois	3, 132, 559 23, 080, 300	2,962,484 22,660,539	1,230,206 10,690,259	761,787 6,703,139	328,141 1,102,647	642,350 4,164,494	170,075 419,761	8,712 32,532	340.05 696.56
Michigan	10, 590, 353	9,093,301	6, 168, 205	1,961,231	577,963	385, 902	1, 497, 052	14,763	615.95
Wisconsin	8,957,695	8, 158, 907	3,827,181	1,994,204	709,752	1,627,770	798,788	13,510	603.92
WEST NORTH CENTRAL	18,561,961	17, 453, 378	8,330,251	4,655,286	1,305,829	3, 162, 012	1,108,583	42,384	411.79
Minnesota	4, 124, 449	4,012,291	2, 185, 183	837,232	304,805	685,071	112,158	10,493	382.38
Iowa	3,027,184	2,817,145	1,352,944	769,388	244,532	450,281	210, u39	6,500	433.41
Missouri	5, 178, 630	5, 039, 189	2, 356, 101	1,376,533	392,316	914, 239	139,441	12,307	409.46
North Dakota	893,408	854,480	383,229	209,948	65, 455	195,848	38,928	2,046	417.63
South Dakota	628,712	597,530	273,762	171,597 765,560	51,803 130,417	100,368 369,658	31, 182 480, 056	1,636 4,338	365, 24 542, 85
Nebrasks Kansas	2,834,937 1,874,641	2,354,881 1,777,862	1,089,246 689,786	525,028	116,501	446,547	96,779	5,064	351.08
SOUTH ATLANTIC	22,741,158	20,061,533	8,240,563	6,724,760	1,255,309	3,840,901	2,679,625	49,516	405.15
Delaware	821,892	696,892	306, 394	203,857	65,598	121,043	125,000	1,260	553.09
Maryland	3,478,915	3,217,919	1,563,037	912,634	256,541	485,707	260,996	7,104	452,97
Virginia	3,739,782	3,584,450 1,566,872	1,396,603	1, 283, 567 432, 921	162,757 77,307	741,523 425,167	155,332 77,168	9,609 4,485	373.03 349.36
West Virginia North Carolina	1,644,040 3,677,535	3, 465, 292	1,373,725	1, 161, 944	197, 125	732,498	212,243	7,578	457.28
South Carolina	2, 252, 982	2, 252, 982	790, 381	825,065	55,744	581,792		4,842	465.30
Georgia	3,546,301	2,776,187	1, 112, 710	956,622	228,312	478,543	770,114	8,895	312.11
Florida	3,579,711	2,500,939	1,066,236	948,150	211,925	274,628	1,078,772	5,743	435.48
EAST SOUTH CENTRAL	7, 129, 714	7,045,033	2,695,473	2,513,630	580,160	1,255,770	84,681	21, 127	333.46
Kentucky	2,065,915	2,064,462	849,862	846,962	216,060 113,261	151,578 244,870	1,453	6,612 4,455	312.23 288.90
Tennessee Alabama	1,320,217 2,402,013	1,287,070 2,402,013	442, 829 931, 966	486,110 731,592	148, 382	590,073	33, 147	5, 732	419.05
Missiasippi	1,341,569	1, 291, 488	470,816	448,966	102,457	269, 249	50,081	4,328	298.40
WEST SOUTH CENTRAL	12,855,950	11,845,003	4,147,100	4,064,166	551, 266	3,082,471	1,010,947	30,783	384.79
Arkansas	2,008,082	1,722,236	597,901	584,370	86,107	453,858	285,846	4,770	361,06
Louisiana	2,520,547	2,418,401	929,003	998, 567	98, 173	392,658	102, 146	6,895	350.75
Oklahoma Texas	3,052,676 5,274,645	2,679,059 5,025,307	926,489 1,693,707	830,694 1,650,535	138,591 228,395	783,285 1,452,670	373,617 249,338	7,675 11,443	349.06 439.16
MOUNTAIN	7,567,345	7,300,200	4,013,829	1,324,391	452,305	1,509,675	267, 145	12,069	604.87
Montana	885,527	885,527	375,092	344,081	36, 188	130, 166		1,831	483.63
Idaho	583,383	533,981	247,905	110,674	81,064	94, 338	49,402	1,088	490.79
Wyoming	161,909	155, 762	84,245	46,329	12,592	12,596	6, 147	648	240.37 750,40
Colorado	3,662,927	3,561,377	2, 190, 353	486,923	188,434	695,667 145,367	101,550 10,471	4,746 975	750.40 580.67
New Mexico	576,624 866,294	566, 153 805, 176	251, 807 437, 554	123, 155 116, 941	45,824 37,945	212,736	61,118	1,275	631.51
Arizona Utah	606, 818	586, 450	359, 223	52, 290	30,966	143,971	20,368	1, 152	509.07
Nevada	223,863	205,774	67,650	43,998	19, 292	74,834	18,089	354	581.28
PACIFIC	25,082,315	21,340,128	12,422,735	4,177,313	1,022,301	3,717,779	3,742,187	38,281	557.46
Washington	4,817,847	4,406,580	1,987,457	1,129,784	309,029	980,310	411, 267	6,826	645.56
Oregon	2,777,203	1,723,270	907,882	346, 150	101,052	368, 186	1,053,933	4,046	425.92 554.94
California	17,487,265	15, 210, 278	9,527,396	2,701,379	612,220	2,369,283	2,276,987	27,409	336.96

MENTAL HEALTH STATISTICS

Current Reports

FEDERAL SECURITY AGENCY, Public Health Service, National Institute of Mental Health

e 1950

Bethesda 14, Maryland

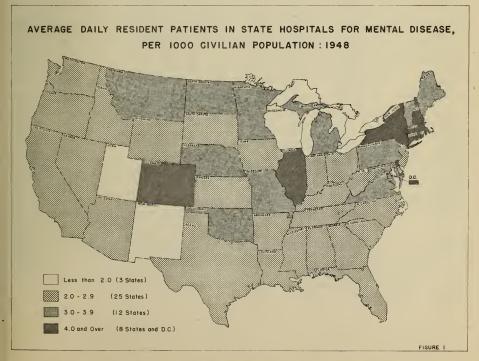
Series MH-B50, No. 4

PATIENTS IN STATE MENTAL HOSPITALS: 1948

The average daily resident patient population in State mental hospitals in 1948 was 463,496. This means that, on the average, there were slightly more than 3 patients per 1,000 population 1 in daily residence in such hospitals throughout the United States during 1948. There was considerable interstate variation, New York, for instance, having a ratio of 5.5 compared to 1.7 in New Mexico.

Since State hospitals accounted, in general,

for about 95 percent of the resident patient population in all non-federal public hospitals for the mentally ill, it would appear that the differences mentioned above are fairly good indices of variation in the extent to which facilities for the care of the mentally ill were available. It is evident from figure 1 that the Southern and Western States, with few exceptions, had low ratios compared to the Northern and Eastern ones. The picture in 1947 was similar to that in 1948.



Based on estimated civilian population as of July 1 of the corresponding year. Source: Series P-25, Nos. 14 and 21, Dept. of Commerce, Bureau of Census.

TABLE 1.--MOVEMENT OF POPULATION IN STATE HOSPITALS FOR MENTAL DISEASE BY DIVISION AND STATE: 1948

(Statiatics based on reports from 199 State and 8 Ohio receiving hospitals)

			BOOKS /		ADMIS: DURING		In	SEPA	RATIONS	DURING Y	EAR	Out		BOOKS A'	
DIVISION AND STATE	Number of hospitala reporting	In hoa- pital	In family care	In other extra- mural care	First admis- sions	Re- admis- aions	trans- fers	From hos-	From extra-mural care	In hos- pital	In extra-	trans- fers	In hos- pital	In family care.	In other extra- mural care
UNITED STATES NEW ENGLAND Maine New Hampshire	207 21 2 1	455,972 40,522 2,746 2,408	2,237 455 	68,893 4,611 198 405	9,445 541 753	32,296 3,831 188 276	10, 494 267 5	30,894 3,778 219	45,998 4,017 254 595	39,621 4,064 229 319	770 46 	10,700 542 5	469,500 41,383 2,756 2,439	2,635 483 	70,992 4,818 215 489
Vermont Massachusetts Rhode Island Connecticut	1 13 1 3	1.123 23.189 2.941 8.115	192 253 10	2.586 397 1.010	337 5,110 781 1,923	152 2,288 161 766	229 7 26	205 2,335 208 811	95 1,998 279 796	120 2,275 316 805	23 6 17	521 16	1,179 23,676 3,029 8,304	197 265 21	28 2,569 437 1,080
MIDDLE ATLANTIC New York New Jersey Pennsylvania	41 21 3 17	124,506 77,907 11,592 35,007	1,051 1,051 	14,423 8,267 1,514 4,642	22,522 14,578 3,008 4,936	7,453 4,924 1,109 1,420	1,385 674 288 423	4,189 2,893 1,296	10,713 6,462 1,077 3,174	10,461 6,890 1,184 2,387	227 190 37	1,361 811 315 235	127,827 80,363 11,942 35,522	1,119 1,119 	15,443 8,673 1,660 5,110
EAST NORTH CENTRAL Ohio Indiana Illinois Michigan Wisconsin	48 20 6 11 8 3	85,669 22,334 8,983 33,496 18,950 1,906	231 265	12,683 4,402 581 2,859 4,119 722	22,155 6,438 1,440 8,956 3,718 1,603	7,272 1,314 340 4,039 773 806	2,531 1,247 11 753 389 131	9,018 2,073 103 5,181 657 1,004	8,603 3,196 687 2,692 1,362 666	7,705 1,740 771 3,538 1,467 189	177 61 22 65 29	3,012 1,207 5 828 410 562	88,582 23,123 9,131 34,913 19,428 1,987	768 98 340 330 	12,943 4,239 636 2,842 4,495 731
WEST NORTH CENTRAL Minnesota Iowa ¹ Missouri North Dakota South Dakota Nebraska Kansas	25 7 5 5 1 1 3 3	42,217 10,420 6,493 12,251 2,053 1,570 4,381 5,049		7,933 1,775 2,884 1,215 216 52 552 1,239	7,246 1,967 1,046 1,848 373 391 740 881	1,699 468 216 489 89 130 178 129	496 280 77 5 2 132	1,625 455 125 225 94 296 282 148	3,626 1,138 509 1,054 165 36 214 510	3,346 943 537 860 144 150 283 429	133 64 23 12 6 6 22	584 258 127 4 	42,519 10,388 6,488 12,386 2,078 1,613 4,420 5,146		7,758 1,664 2,907 1,267 244 48 646 982
SOUTH ATLANTIC Delaware Maryland Dist. of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	24 1 4 1 5 5 4 1 1 2	56,330 1,234 7,167 6,248 9,528 4,524 7,819 4,928 9,018 5,864	233 	8,753 313 1,139 369 2,007 842 1,397 923 1,218 545	12,442 312 1,415 1,082 2,145 1,473 1,616 1,496 1,903 1,000	4,247 81 520 312 1,267 521 391 364 548 243	1,803 232 36 104 1,117 314	3,997 55 341 517 746 834 145 240 1,051 68	5,718 167 867 361 1,565 392 1,127 862 377	4,725 98 519 419 869 470 553 516 902 379	31 9 3 7 5 7	1,194 61 68 105 634 326	58,473 1,236 7,443 6,337 9,696 4,675 8,497 5,050 9,367 6,172	265 263 2 	9,405 384 1,199 374 2,039 981 1,381 1,043 1,367 637
EAST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi	11 4 3 2 2	23,229 6,613 6,404 5,816 4,396	::	3,643 1,034 361 846 1,402	5,845 1,490 1,399 1,491 1,465	1,733 313 389 584 447	185 73 7 25 80	1,027 362 504 145 16	3,730 649 471 1,355 1,255	1,978 620 520 404 434	16 16 	76 44 7 25	24,057 6,733 6,682 6,045 4,597	=======================================	3,751 1,099 376 788 1,488
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas	14 1 2 4 7	33, 129 4,759 6,788 7,408 14,174		6,601 1,701 1,596 553 2,751	7,692 1,553 1,069 1,240 3,830	2,439 403 297 649 1,090	472 14 6 452	2,378 246 110 344 1,678	4,007 1,126 798 547 1,536	2,502 413 486 575 1,028	41 8 2 31	834 2 40 792	33,018 4,733 6,673 7,437 14,175	 	7,553 1,898 1,687 911 3,057
MOUNTAIN Montana Idaho	9 1 2 1	12,045 1,843 1,088 594 4,718		1,841 150 59 554	2,549 282 302 112 645	768 210 81 54 161	327 9 318	1,312 361 146 49 110	571 53 62 176	1,011 131 122 45 413	53 6 19	59 7 11 	12,477 1,836 1,078 611 4,918		2,047 214 52 719
New Mexico Arizona Utah Nevada	1 1 1 1	977 1,314 1,159 352	=======================================	629 227 179 43	216 571 312 109	12 101 130 19	318 	147 250 211 38	176 127 102 51	67 115 84 34	27		1,019 1,448 1,208 359		574 273 175 40
PACIFIC Washington Oregon California	14 3 2 9	38,325 6,741 4,040 27,544	::	8,405 897 853 6,655	11,322 1,626 1,152 8,544	2,854 402 335 2,117	3,028 24 10 2,994	3,570 335 440 2,795	5,013 817 370 3,826	3,829 721 459 2,649	46 23 23 	3,038 38 25 2,975	41,164 6,918 4,130 30,116	:: ::	7,274 838 943 5,493

Partients in Iowa county homes are included in State hospital atatistics as patients in "other extramural care".

Comparability of statistics.--Statistics based on State hospital data must be interpreted with caution due to limitations of reporting, such as variations in coverage from year to year and the limited scope of the data requested. Although from a bookkeeping point of view, data on movement, for instance, have been considered adequate, if not completely satisfactory, for the purposes of most users, it is obvious that the time has come when a concerted effort must be made to increase both the scope of the information sought in the Census and the completeness of coverage and to improve the calibre of reporting.

It should be borne in mind that in States

It should be borne in mind that in States such as Wisconsin and New Jersey, with a system of county mental hospitals designed to accept people who, in other States, would normally be admitted to State mental hospitals, data pertaining to average daily resident-patient population and other categories of movement in State hospitals are not strictly comparable to those in other States. However, in Iowa, because of the relationship between State and county hospitals, all patients in county hospitals are considered as in "other extramural care" and carried as such in the State hospital data. In similar fashion, the presence in a State of large private hospitals such as Brattleboro Retreat in Vermont or of Federal facilities for mentally ill veterans may decrease the number of admissions to the State hospitals and, hence, the need for State facilities.

Coverage.--The statistics presented here are provisional, covering either the calendar year or the fiscal year ending in the calendar year and are based on data furnished to the National Institute of Mental Health on annual census schedules by the individual hospitals or appropriate State mental health boards.

All 207 State hospitals (including 8 Ohio receiving hospitals) submitted movement schedules for 1948 showing a total of 101,218 first admissions, 469,500 resident patients at the end of the year, and an average daily resident patient population of 463,496 persons. Schedules of first admissions by age and diagnosis were submitted by 178 hospitals with 91.2 percent of the total first admissions; schedules of administrative staff and of expenditures by 200 hospitals. The hospitals reporting staff and expenditures data accounted for 99.0 percent of the average daily resident population.

Movement of population.--Table 1 shows the movement of population in State mental hospitals for the United States, by Division and State; due to limitations of space certain totals have been eliminated. Statistics on

the movement of population which present a formal accounting of the flow of patients in or out of institutions during the course of a year, involve four major categories: (1) patients on books at the beginning of the year, (2) all admissions, (3) all separations, (4) patients on books at the end of year. For any year the number of patients on the books at the beginning of the year plus the total number of admissions should equal the sum of all separations during the year plus the number of patients on the books at the end of the year.

Over 600,000 persons were reported as on the books of State hospitals for mental disease throughout the country during 1948. In view of the fact that there is some duplication in the data when the same individual in the course of the year is admitted to more than one hospital or to the same hospital two or more times the reported 671,110 patient transactions represented an overstatement for the 207 reporting hospitals.

Data reported in table I have certain limitations. For example, first admission figures undoubtedly include an unknown number of patients who have received hospitalization in a mental institution previously. Review of transfer and extramural care data indicate that studies of interstate variations in definitions of such movement categories are necessary. In States where private hospitals do not report to a central State authority, it is not known to what extent transfers represent movement of patients from one hospital to another within the same system or represent a true gain or loss of patient population.

Table 2 presents the basic data and summary rates per 100,000 population for 1948 for first admissions, patients on the books during the year, and resident patients at the end of the year. The corresponding rates for 1947 are shown. Since most admissions to public hospitals for mental disease are to State mental hospitals, and since admissions to these hospitals are limited, in general, to residents of the respective States, the statistics here presented may be of aid in making crude interstate comparisons.

Some 469,500 persons or 323.1 per 100,000 population remained as resident patients in these hospitals at the end of the year. It is interesting to note that during the year the number of resident patients remaining in State mental hospitals increased by about 3 percent over the 455,972 persons in these hospitals at the beginning of the year.

For the country as a whole it may be noted that, between 1947 and 1948, there was a 6

TABLE 2.--SUMMARY DATA FOR MOVEMENT OF POPULATION, IN STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE, 1948, WITH RATES, 1948 AND 1947

(1948 statistics based on reports from 199 State and 8 Ohio receiving hospitals; 1947 statistics based on reports from 196 State and 6 Ohio receiving hospitals)

		MOVEM	ENT OF POP	ULATION:	1948					000 PC		
DIVISION AND STATE	Patients on books at beginning	First ad-	Re- admissions	All discharges	Deaths in hospital	Patients on books at end	Fir		On b during	ooks year ²	tien	ent pa- ts at f year
	of year					of year	1948	1947	1948	1947	1948	1947
UNITED STATES	527,102	101,218	32,296	76,892	39,621	543, 127	69.7		461.9	452.0		316.9
NEW ENGLAND Maine	45,588 2,944	9,445 541	3,831 188	7,795 473	4,064 229	46,684 2,971	101.9		637.9 410.0	630.1 407.5	446.4 307.2	
New Hampshire	2,813	753	276	595	319	2,928	138.2	124.1	705.0	683.2	447.5	453.5
Vermont	1,138	337	152	300	120 2,275	1,207 26,442	90.1	73.4	435.0 714.2	415.9	315.2 503.3	307.7
Massachusetts Rhode Island	25,967 3,591	5,110 781	2,288 161	4,333 487	316	3,731	105.3	75.8	611.9	596.6	408.2	394.3
Connecticut	9,135	1,923	766 ·	1,607	805	9,405	95.8	89.9	590.1	594.1	413.5	411.9
MIDDLE ATLANTIC	139,980	22,522	7,453	14,902	10,461	144,389	75.8		576.5	574.0	430.1	
New York	87,225	14,578	4,924	9,355	6,890	90, 155	101.5		748.1	739.4	559.7 254.6	551.0
New Jersey Pennsylvania	13,106 39,649	3,008 4,936	1,109 1,420	2,373 3,174	1,184 2,387	13,602 40,632	46.2		434.9	439.6	332.7	333.5
EAST NORTH CENTRAL.	98,850	22,155	7,272	17,621	7,705	102,293	74.3	66.4	438.8	429.4	297.1	293.7
Ohio	26,738	6,438	1,314	5,269	1,740	27,460	82.7	77.4	458.9	451.9	296.9	
Indiana	9,564	1,440	340	790	771	9,767	36.9		290.6 583.8	293.1 559.8	233.7	234.3
Illinois Michigan	36,586 23,334	8,956 3,718	4,039 773	7,873 2,019	3,538 1,467	24,253	60.1		455.9	446.8		312.8
Wisconsin	2,628	1,603	806	1,670	189	2,718	48.5	44.7	156.3	168.7	60.1	58.7
WEST NORTH CENTRAL	50,150	7,246	1,699	5,251	3,346	50,277	52.0	47.8	427.6	389.4		283.6
Minnesota Iowa	12, 195 9, 377	1,967 1,046	468 216	1,593 634	943 537	12,052 9,395	67.0		507.5	528 <i>a</i> 6 340.9	353.6 247.3	
Missouri	13,466	1,848	489	1,279	860	13,653	46.8	38.5	400.7	300.2	314.0 371.7	226.5
North Dakota	2,269	373	89	259	144	2,322	66.7	60.1	488.6	488.7	371.7	379.5
South Dakota Nebraska	1,622 4,933	391 740	130 178	332 496	150 283	1,661 5,066	63.1 57.1		345.6 451.3	365.0 448.4	260.2	341.7
Kansas	6,288	881	129	658	429	6, 128	45.1	36.6	380.4	366.9	263.5	263.9
SOUTH ATLANTIC	65,316	12,442	4,247	9,715	4,725	68,143	64.7	65.2	435.8	428.8	304.1	295.7
Delaware	1,547	312	81 520	222	98 519	1,620 8,905	105.1	99.7	653.2	426.2	416.2	425.5 339.6
Maryland Dist. of Columbia	8,535 6,617	1,415 1,082	312	1,208 878	419	6,711	124.8	132.6	924.0	950.5	730.9	751.9
Virginia	11,535	2, 145	1,267	2,311	869	11,735	72.1		503.6	517.7		322.4
West Virginia North Carolina	5,366 9,220	1,473 1,616	521 391	1,226 1,272	470 553	5,656 9,880	76.9		389.8	394.6		240.7
South Carolina	5,851	1.496	364	1,102	516	6,093	76.3	66.7	393.4	382.0	257.7	255.5
Georgia Florida	10,236	1,903 1,000	548 243	1,051	902 379	10,734	61.3		408.7	388.8	301.8	289.6 257.2
EAST SOUTH CENTRAL	26,872	5,845	1,733	4,757	1.978	27,808	53.7		318.2	314.2	221.1	216.8
Kentucky	7,647	1,490	313	1,011	620	7,832	53.3	53.4	341.0	349.1	241.1	239.5
Tennessee	6,765	1,399	389	975	520 404	7,058	44.6 52.5		272.6	266.8	212.8	210.6
Alabama Mississippi	6,662 5,798	1,491 1,465	584 447	1,500 1,271	434	6,833 6,085	69.4	67.8	368.8	355.1	217.7	210.6
WEST SOUTH CENTRAL	39,730	7,692	2,439	6,385	2,502	40,571	55.0		359.7	353.9		237.
Arkansas	6,460	1,553	403	1,372	413	6,631	80.8		437.6	452.4		248.9
Louisiana Oklahoma	8,384 7,961	1,069 1,240	297 649	908 891	486 575	8,360 8,348	41.7 52.7		380.5	388.8		267.8 324.5
Texas	16,925	3,830	1,090	3,214	1,028	17,232	53.5		311.7	287.7		194.6
MOUNTAIN	13,886	2,549	768	1,883	1,011	14,524	57.1		392.3	383.1	278.3	276.1
Montana	1,843	282	210	361	131	1,836	55.4	50.3	458.7	461.8	360.7	378.4
Idaho Wyoming	1,238 653	302 112	81 54	199 111	122 45	1,292	57.0	43.5	307.5	316.2	226.3	228.5
Colorado	5,272	645	161	286	413	5,637	56.0	56.3	555.7	536.4	427.3	418.
New Mexico Arizona	1,606 1,541	216 571	12 101	147 377	67 115	1,593	38.5		326.9	331.0	181.6	181.
Utah	1,338	312	130	313	84	1,383	47.9	49.2	273.0	271.8	185.3	181.
Nevada	395	109	19	89	34	399	77.3	90.6	370.9	384.2	254.6	253.
PACIFIC.	46,730	11,322	2,854	8,583	3,829	48,438	81.0		457.6	444.4 421.8	294.6	282.
Washington Oregon	7,638 4,893	1,626 1,152	402 335	1,152 810	721 459	7,756	66.3		395.0	421.8		261.
California	34, 199	8,544	2, 117	6,621	2,649	35,609	86.4		483.7	452.5	304.4	

Estimated civilian population as of July 1, for the corresponding year. Source: Series P-25, Nos. 12 and 14, Department of Commerce, Bureau of Cenaus.

Patients on books during the year comprises patients on books at beginning of year and all admissions including transfers.

TABLE 3. -- FIRST ADMISSIONS TO STATE HOSPITALS FOR MENTAL DISEASE, BY AGE AND SEX, FOR THE UNITED STATES, 1948, WITH RATES FOR 1948 AND 1947

(1948 statistics based on reports from 199 State and 8 Ohio receiving hospitals; 1947 statistics based on reports from 196 State and 6 Ohio receiving hospitals)

												_
	ALMIA	FIRST ADMISSIONS: 19	1948	PER DISTRI	DISTRIBUTION OF TOTAL FIRST			RATE PER 100,000 ¹ CIVILIAN POPULATION	100,000 ¹	>		
		- 1		ADMIS	ADMISSIONS		1948			1947		
To	Total	Male	Female	1948	1947	Total	Male	Female	Total	Male	Female	
101	101,218	54,698	46,520	100.0	100.0	2.69	76.3	63.2	65.7	70.3	61.2	T
	888	542	346	1.0	1.1	2.3	2.7	1.8	2.7	3.3	2.1	
ຕິ	,447	2,002	1,445	3.7	4.0	32.3	38.1	26.6	33.2	38.4	28.4	_
Ś	,802	3,112	2,690	6.3	6.3	50.0	55.7	44.7	48.9	50.7	47.2	
7	,003	3,443	3,560	9.7	7.5	59.6	61.2	58.2	58.5	56.5	60.3	
2	,923	3,862	4,061	9.8	8.8	71.5	72.9	70.2	71.8	71.6	72.0	_
8	792,	4,750	4,017	9.5	9.7	82.8	92.2	73.9	83.8	868.8	78.1	_
ထ	292	4,755	3,537	9.0	8.7	85.2	99.3	71.6	82.0	93.3	71.0	
7	379	4,148	3,231	8.0	7.9	82.7	94.1	711.7	81.7	88.5	75.0	
9	,513	3,455	3,058	0.7	6.9	80.8	86.1	75.5	77.5	6.62	75.1	
S	,872	3,302	2,570	6.4	6.2	81.4	91.3	71.3	78.8	85.3	72.1	
5	,867	3,409	2,458	6.3	6.4	100.3	116.3	84.2	101.8	115.1	88.5	
9	6,112	3,598	2,514	9.9	6.4	140.6	168.6	113.6	136.3	155.5	117.7	
18	,465	9,479	8,986	20.0	20.1	279.7	308.1	254.9	282.8	314.8	254.7	
©	,888	4,841	4,047	;	:	:	:	:	!	1	:	
4	47.7	48.0	47.4	1	1	!	1	;	;	;	;	
							,					

lestimated civilian population as of July 1, for the corresponding year. Source: Series P-25, No. 21, Department 2of Commerce, Bareau of Gensus.

Not reported includes (a) first admissions shown on age and diagnosis schedules, but by age only and not by diagnosis (b) first admissions on movement schedules of hospitals not submitting schedules of first admissions by age and diagnosis (c) diagnosed first admissions with unknown age.

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TABLE 4. -- FIRST ADMISSIONS TO STATE HOSPITALS FOR MENTAL DISEASE, BY MENTAL DISORDER AND SEX, FOR THE UNITED STATES, 1948, WITH PERCENTS AND RATES: 1948 AND 1947

(1948 statistics based on reports from 199 State and 8 Ohio receiving hospitals; 1947 statistics based on reports from 196 State and 6 Ohio receiving hospitals)

		NUMB	E R	PERC DIST BUTIO	TRI- ON OF	P	ATE PE	R 100,	000 PO	PULATI	ON 1
MENTAL DISORDER		1948		TOTAL ADMIS			1948			1947	
	Total	Male	Female	1948	1947	Total	Male	Female	Total	Male	Female
Total patients	101,218	54,698	46,520	100.0	100.0	69.7	76.3	63.2	65.7	70.3	61.2
With psychosis	76,653	39, 197	37,456	83.0	83.7	52.8	54.6	51.1	53.5	54.6	52.4
General paresis With other forms of syphilis of the C. N. S. With spidemic encephalitis With other infectious diseases Alcoholic Due to drugs and other exogenous poisons	4, 121 658 158 186 4, 611 397	2,947 440 101 90 3,747 192	1, 174 218 57 96 864 205	4.5 0.7 0.2 0.2 5.0 0.4	5.4 0.7 0.2 0.2 4.5 0.4	2.8 0.5 0.1 0.1 3.2 0.3	4.1 0.6 0.1 0.1 5.2 0.3	1,6 0.3 0.1 0.1 1.2 0.3	3.4 0.4 0.1 0.2 2.9 0.3	4.9 0.6 0.1 0.2 4.7 0.3	2.0 0.3 0.1 0.1 1.1 0.3
Traumatic With cerebral arteriosclerosis With other disturbances of circulation With convulsive disorders Senile Involutional psychoses Due to other metabolic, etc., diseases Due to new growth With organic changes of the nervous system	466 14, 458 585 1, 498 11, 504 4, 188 656 170 1, 061	401 8,046 366 858 5,420 1,131 285 100 593	65 6,412 219 640 6,084 3,057 371 70 468	0.5 15.7 0:6 1.6 12.5 4.5 0.7 0.2 1.1	0.5 15.8 0.7 1.5 12.1 4.7 0.8 0.2 1.0	0.3 10.0 0.4 1.0 7.9 2.9 0.5 0.1 0.7	0.6 11.2 0.5 1.2 7.6 1.6 0.4 0.1	0.1 8.7 0.3 0.9 8.3 4.2 0.5 0.1	0.3 10.1 0.5 0.9 7.7 3.0 0.5 0.1	0.5 11.3 0.5 1.1 7.4 1.6 0.4 0.2 0.8	0.1 8.9 0.4 0.8 8.1 4.3 0.6 0.1
Manic-depressive Dementia praecox (schizophrenia) Paranoia and paranoid conditions With psychopathic personality With mental deficiency Other, undiagnosed, and unknown Psychoneuroses	5,633 19,290 1,024 911 2,377 2,701 3,772	2,055 8,483 513 611 1,287 1,531	3,578 10,807 511 300 1,090 1,170 2,222	6.1 20.9 1.1 1.0 2.6 2.9	7.2 20.5 1.2 1.0 2.6 2.5	3.9 13.3 0.7 0.6 1.6 1.9	2.9 11.8 0.7 0.9 1.8 2.1	4.9 14.7 0.7 0.4 1.5 1.6	4. 13.1 0.8 0.6 1.7 1.6	3. 1 11. 4 0. 8 0. 9 1. 8 2. 0	6.0 14.7 0.8 0.4 1.6 1.2
	11,905	9,030	2,875	12.9	12.4	8.2	12.6	3.9	7.9	11.7	4.4
Without psychosis Epilepsy Mental deficiency Alcoholism Drug addiction Personality disorders due to epidemic encephalitis Psychopathic personality Primary behavior disorders Other, unclassified, and unknown	353 1, 244 5, 679 389 48 1, 209 548 2, 435	210 773 4,769 195 33 940 363 1,747	143 471 910 194 15 269 185 688	0.4 1.3 6.2 0.4 0.1 1.3 0.6 2.6	0.3 1.6 5.2 0.4 0.1 1.5 0.7 2.6	0.2 0.9 3.9 0.3 0.0 0.8	0.3 1.1 6.7 0.3 0.0 1.3 0.5 2.4	0,2 0,6 1,2 0,3 0,0 0,4 0,3 0,9	0.2 1.0 3.3 0.3 0.1 0.9 0.4 1.7	0.3 1.2 5.6 0.3 0.1 1.4 0.6 2.2	0.2 0.8 1.1 0.3 0.0 0.5 0.3 1.2
Mental disorder not reported ²	8,888	4,921	3,967								

letinated civilian population as of July 1, for the corresponding year. Source: Series P-25, No. 21, Department of Commerce, Direau of Census.

Shreau of Census.

Mental disorder not reported includes (a) first admissions shown on age and diagnosis achedules, but by age only and not by diagnosis (b) first admissions on movement achedules of hospitals not substiting schedules of first admissions by age and diagnosis.

percent increase in the first admission rate, a 2 percent increase in the rate for patients on the books during the year, and a 2 percent increase in rates pertaining to resident patients at the end of the year. These increases must be interpreted with caution since availability of hospital facilities, increase in medical, nursing and attendant personnel, as well as other factors, often exercise greater influence over these rates than true changes, if any, in the incidence and prevalence of hospitalizable mental disorders in the population. It is well to remember, moreover, that just as a new therapeutic measure or a change in discharge policy may account for a sharp drop in resident patients at the end of the year in a given State, so may an increase in resident patients in another State be due to the availability of additional hospital facilities as well as to a real increase in incidence and prevalence. In other words, whatever changes occur may be due to any of a number of causes acting singly or in combination and it is difficult to determine the relative

effect of each such cause.

First admissions by age and sex.--In table 3 are shown the number of first admissions by age and sex, 1948, and the corresponding percents and rates per 100,000 population, 1948 and 1947. There was very little difference between the percent distribution for the two years. Almost one-third of the first admissions occurred in individuals 60 years of age and over. In 1948, first admission rates for males exceeded those for females in every age group. This was true for 1947 except for the age group 25-34 years. The rate for both sexes, with few exceptions, increased steadily with age, showing a marked spurt after age 60.

First admissions by diagnosis, age and sex .-- Table 4 presents the number of first admissions to State mental hospitals by diagnosis and sex, 1948, and the respective percents and rates per 100,000 population for 1948 and 1947. The percent distribution of mental disorders appears to show little change in the two years under consideration. In males, as well as in females, patients diagnosed as psychotic accounted for over 80 percent of all diagnosed first admissions. The diagnosis of dementia praecox was reported in about 20 percent of these admissions, psychosis with cerebral arteriosclerosis in 16 percent, senile psychosis in 13 percent, and manic-depressive psychosis in 6 percent. Thus, these four diagnoses accounted for more than half of all diagnosed first admissions.

Among the psychoses, the following diagnoses showed markedly higher rates for males than for females: general paresis, psychosis with other forms of syphilis of the central nervous system, alcoholic psychosis, psychosis due to trauma, and psychosis with psychopathic personality. As-was to be expected, the female rates were distinctly higher for the involutional psychoses. These findings were also in evidence in 1947 rates.

Table 5 gives age specific first admission rates, by diagnosis, to State mental hospitals in 1948. These data are shown graphically in figure 2. It is evident that in the age group 15-49 years dementia praecox showed the highest age specific first admission rates. For the next several years of age the involutional psychoses predominated. From age 60 on a sharp increase in the first admission rate of mental diseases of the senium accounted for the markedly increased total first admission rates. The probability of being hospitalized with a mental disease was far greater after age 60 than at any other period of life. The peak age specific rates for all mental disorders combined, excluding mental diseases of the senium, was reached at 40-44 years and dropped thereafter to the end of the life span.

Administrative statistics.-- Comparative statistics for 1948 and 1947 for State mental hospitals on overcrowding, expenditures, and administrative staff are reported in tables 6, 7 and 8 respectively.

Overcrowding .-- Although the number of beds provided for patients in these hospitals has been constantly increasing, the demand for these beds has most often exceeded the supply. New facilities are filled almost as rapidly as they are completed. As a consequence, in a great number of States, overcrowding is a common phenomenon. In table 6 the degree of overcrowding in these hospitals is measured by the excess of average daily resident-patient population over rated capacity, expressed as a percentage of rated capacity. The average daily resident-patient population is taken as a crude measure of the number of beds provided. It should be noted that the definition of rated capacity varies from State to State and probably within the same State at different times. In 1948, the degree of overcrowding in State hospitals for mental disease in the United States was 18.2 percent as compared to 16.7 percent in 1947. In 1948, as well as in 1947, it was greatest in Arizona, Louisiana and Illinois where the average daily resident population in State hospitals was about one and a half times their rated capacity. On the other hand, a number of States, seven in 1947 and six in 1948, reported a rated capacity greater than their average daily residentpatient population. There is no inference that more bed space or more adequate facilities were provided in these States than elsewhere. Table 6 also shows the average daily resident-patientsper 1,000 population for the years under consideration.

Administrative staff .-- The adequacy of care received by patients in any hospital largely depends upon the relationship between the number and type of well trained personnel and the number of patients under care. This relationship may be crudely expressed in terms of the average number of patients served by each full-time employee. The variation from hospital to hospital, however, in the number of employees not directly associated with patient care, such as farm workers, etc., would affect the meaningfulness of such ratios. The number and type of personnel on duty in State mental hospitals for the United States, by Division and State, in 1948 are shown in table 7 together with the ratio of patients to fulltime employees. For comparative purposes there are included similar ratios for 1947. It should be noted that the ratio of patients to

(Statistics based on reports from 199 State and 8 Ohio receiving hospitals)

					RAT	E 1	PER	100	, 0 0	01				
MENTAL DISORDER	All ages	Under 15 years	15 to 19 yesrs	20 to 24 yesrs	25 to 29 years	30 to 34 years	35 to 39 years	40 to 44 yeara	45 to 49 years	50 to 54 yesrs	55 to 59 years	60 to 64 years	65 to 69 years	70 and over
All patients	69.7	2.3	32.3	50.0	59.6	71.5	82.8	85.2	82.7	80.8	81.4	100.3	140.6	279.7
With psychosis	43.5	0.7	22.8	37.6	45.1	54.2	60.0	62.9	65.2	65.8	69.3	89.9	132.1	273.3
General paresis With other forms of syphilis of the C.N.S. With epidemic encephalitis With other infectious diseases Alcoholic Due to drugs and other exogenous poisons	2.8 0.4 0.1 0.1 3.2 0.3	0.0 0.0 0.0 0.0	0.3 0.1 0.0 0.1 0.1 0.0	0.4 0.1 0.0 0.2 0.8 0.1	0.7 0.2 0.1 0.1 2.0 0.2	2.3 0.5 0.2 0.2 4.0 0.4	5.6 0.7 0.2 0.2 7.0 0.6	7.8 1.0 0.2 0.2 8.6 0.6	8.3 1.1 0.2 0.2 7.3 0.6	6.5 1.0 0.2 0.3 7.2 0.5	6.0 1.0 0.2 0.2 6.6 0.6	5.4 0.9 0.1 0.2 5.2 0.5	4.5 0.9 0.1 0.1 3.6 0.3	1.7 0.4 0.1 1.0 0.2
Trammatic With cerebral arteriosclerosis With other disturbances of circulation With convulsive disorders Lucolutional psychoses Due to other metabolic, etc., diseases Due to new growth	0.3 10.0 0.4 1.0 7.9 2.9 0.4 0.1	0.0	0.1 0.0 1.3 0.0 0.1 0.0	0.2 0.0 1.9 0.0 0.2 0.0	0.3 0.0 1.7 0.0 0.2 0.0	0.2 0.1 1.8 0.1 0.2 0.1	0.5 0.1 1.7 0.9 0.4 0.1	0.6 0.7 0.4 1.4 4.7 0.5 0.1	0.5 2.0 0.7 1.2 0.1 10.2 0.7 0.3	0.6 5.3 0.9 1.0 0.6 14.1 1.1 0.2	0.8 13.6 1.3 0.9 1.8 11.5 1.5	0.6 36.2 1.6 0.8 9.7 8.6 1.6 0.3	0.5 69.4 1.7 0.6 28.5 4.4 1.2 0.3	0.4 114.7 1.8 0.8 142.4 0.6 0.9
With organic changes of the nervous system Manic-depressive Dementis prescox (achizophrenis) Paranois and paranoid conditions With psychopathic personality With mental deficiency Other, undisgnosed, and unknown	0.7 3.9 13.3 0.7 0.6 1.6 1.8	0.0 0.3 0.0 0.0 0.0 0.2 0.1	1.4 13.9 0.1 1.2 2.9 1.0	0.3 3.0 24.7 0.1 1.4 2.9 1.3	0.3 4.6 28.1 0.4 1.3 3.0 1.9	0.6 6.8 30.2 0.6 1.1 2.6 2.2	8.0 26.4 0.9 0.8 2.7 2.5	7.8 19.9 1.4 0.8 2.4 2.8	7.1 16.3 1.6 0.7 1.8 2.9	1.5 6.9 11.0 2.1 0.4 1.5 2.9	2.1 6.2 7.6 2.0 0.3 1.2 3.6	5.2 4.8 1.6 0.1 1.0 3.3	2.3 4.3 3.0 1.4 0.3 0.6 4.1	1.3 1.2 0.5 0.1 0.2 3.6
Paychoneuroses	2.6	0.1	1.6	3.2	4.2	5.1	5.6	4.6	3.4	3.1	3.0	2.8	2.2	0.8
Without paychosia	8.0	1.1	7.4	8.4	9.5	11.8	16.4	17.3	13.5	11.3	8.6	7.0	5.7	4.7
Epilepsy Mental deficiency Alcoholism Drug addiction Personality disorders due to epidemic	0.2 0.8 3.9 0.2	0.1 0.3 0.0	0.6 2.0 0.1 0.0	0.5 1.8 1.1 0.1	0.4 1.4 3.2 0.2	0.3 0.9 6.6 0.4	0.4 1.1 10.5 0.5	0.2 0.8 11.6 0.8	0.2 0.8 9.2 0.5	0.1 0.6 7.6 0.6	0.1 0.6 5.0 0.3	0.1 0.4 3.8 0.2	0.2 2.6 0.4	0.0 0.1 0.9 0.2
Psychopathic personality Psychopathic personality Primary behavior disorders Other, unclassified, and unknown	0.0 0.8 0.4 1.7	0.0 0.0 0.6 0.1	0.0 2.1 1.3 1.3	0.0 2.1 0.4 2.4	0.0 1.9 0.3 2.1	0.0 1.4 0.2 2.0	0.1 1.2 0.2 2.4	0.1 0.9 0.1 2.8	0.1 0.6 0.0 2.1	0.0 0.3 0.1 2.0	0.0 0.3 0.2 2.1	0.0 0.2 0.1 2.2	0.2	0.1 0.0 3.4

Estimated civiliao populatios as of Joly 1, 1948. Soorca: Serica P-25, No. 21, Department of Commerce, Bureau of the Cessus.

total employees is not as meaningful as the ratio of patients to employees of specific occupational groups. Thus hospitals really tending to fulfill a therapeutic function may differ markedly in their patient-physician ratio from those where the major emphasis appears to be on custody. For the country as a whole the need for full-time physicians in State mental hospitals was about 47 percent met, based on 1941 standards approved by the APAI. The deficiencies in personnel are and have been most severe in physicians, clinical psychologists, psychiatric social workers, nursing personnel, attendants and other specialized therapeutic workers.

Expenditures.--Table 8 presents statistics on expenditures classified by purpose of expenditure for State mental hospitals, and percent distribution of maintenance expenditures, by Division and State, for the year 1948 and per capita expenditures for maintenance for 1948 and 1947. The per capita expenditure for maintenance for State mental hospitals reporting such data for 1948 was \$659.13 com-

pared to \$547.84 in 1947. This was an overall increase of about 20 percent in per capita cost. There was considerable interstate variation reflecting in part geographical and fiscal year variation in the general price level and, in part, variations in the type and adequacy of care provided. The degree to which hospitals were self supporting by the production of their farms and their varying needs for such items as fuel, light and water were also reflected in their per capita maintenance expenditures. For the country as a whole, about 55 percent of the State mental hospitals maintenance dollar was spent for salaries and wages, 23 percent for purchased provisions, 6 percent for fuel, light and water and 16 percent for other items of maintenance. Here also there was considerable variation between States in the relative expenditures for various maintenance items. For example, 66 percent of Michigan's maintenance dollar was spent for salaries and wages while only 30 percent of Tennessee's dollar was spent for the same pur-

¹By these standards there would be, exclusive of the superintendent, one physician for every 200 resident patients and one physician for every 100 admissions during the year, excluding transfers.

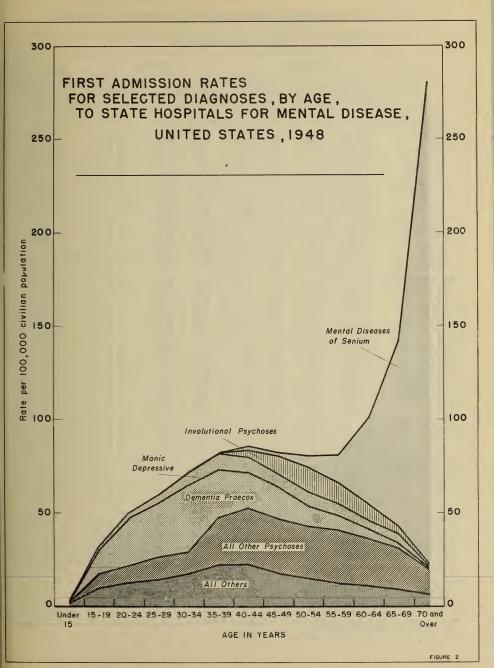


TABLE 6.--EXCESS OF AVERAGE DAILY RESIDENT-PATIENTS OVER RATED CAPACITY OF STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE: 1948 AND 1947

(1948 statistics based on reports from 199 State and 8 Chio receiving hospitals; 1947 statistics based on reports from 196 State and 6 Chio receiving hospitals)

DIVISION		OVERCROWE	ING: 194	8	(OVERCROWD	ING: 1947		AVERAGE RESIDENT-	
AND STATE	Average daily resident	Rated capacity	Excess of over c	population apacity 2	Average daily resident	Rated		population pacity 2	PER 1,000 POPULA	CIVILIAN
	patients	capacity	Number	Percent	patients	capacity	Number	Percent	1948	1947
UNITED STATES	463, 496	392,224	71,272	18.2	450,216	385,635	64,581	16.7	3.2	3.2
NEW ENGLAND Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	40,952	34,722	6,230	17.9	40,626	34, 416	6,210	18.0	4.4	4.5
	2,760	2,207	553	25.1	2,701	2, 159	542	25.1	3.1	3.1
	2,446	2,114	332	15.7	2,405	2, 050	355	17.3	4.5	4.5
	1,147	858	289	33.7	1,104	858	246	28.7	3.1	3.0
	23,412	19,397	4,015	20.7	23,356	19, 397	3,959	20.4	5.0	5.1
	3,009	2,700	309	11.4	2,970	2, 700	270	10.0	4.1	4.0
	8,178	7,446	732	9.8	8,090	7, 252	838	11.6	4.1	4.1
MIDDLE ATLANTIC	126, 272	101,849	24, 423	24.0	124, 272	101,899	22,373	22.0	4.2	4.3
New York	79, 043	65,874	13, 169	20.0	77, 344	65,675	11,669	17.8	5.5	5.5
New Jersey	11, 865	8,949	2, 916	32.6	11, 677	8,889	2,788	31.4	2.5	2.5
Pennsylvania	35, 364	27,026	8, 338	30.9	35, 251	27,335	7,916	29.0	3.3	3.4
EAST NORTH CENTRAL	87,577	68,008	19, 569	28.8	85,012	67,424	17,588	26.1	2.9	2.9
Ohio	22,898	20,099	2, 799	13.9	22,086	19,649	2,437	12.4	2.9	2.9
Indiana	9,029	8,978	51	0.6	9,043	9,040	3	0.0	2.3	2.4
Illinois	34,171	21,932	12, 239	55.8	32,974	21,902	11,072	50.6	4.0	3.9
Michigan	19,468	15,264	4, 204	27.5	18,974	15,264	3,710	24.3	3.1	3.1
Wisconsin	2,011	1,735	276	15.9	1,935	1,569	366	23.3	0.6	0.6
WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	42,747	39,416	3,331	8.5	39,051	37,535	1,516	4.0	3.1	2.9
	10,411	10,404	7	0.1	10,493	10,365	128	1.2	3.5	3.6
	6,639	5,072	1,567	30.9	6,574	5,072	1,502	29.6	2.5	2.5
	12,359	10,662	1,697	15.9	8,900	8,898	2	0.0	3.1	2.3
	2,054	2,000	54	2.7	2,046	2,000	46	2.3	3.7	3.8
	1,650	1,888	-238	-12.6	1,636	1,888	-252	-13.3	2.7	2.8
	4,403	4,386	17	0.4	4,338	4,356	-18	-0.4	3.4	3.4
	5,231	5,004	227	4.5	5,064	4,956	108	2.2	2.7	2.6
SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	57,604	52,732	4,872	9. 2	55, 693	51,007	4,686	9.2	3.0	2.9
	1,226	1,250	-24	-1. 9	1, 230	1,250	-20	-1.6	4.1	4.2
	7,260	5,755	1,505	26. 2	7, 104	6,322	782	12.4	3.4	3.4
	6,342	6,007	335	5. 6	6, 207	6,598	-391	-5.9	7.3	7.5
	9,616	8,300	1,316	15. 9	9, 609	8,300	1,309	15.8	3.2	3.3
	4,558	3,789	769	20. 3	4, 485	3,670	815	22.2	2.4	2.4
	8,410	9,413	-1,003	-10. 7	7, 578	7,423	155	2.1	2.3	2.1
	4,980	4,855	125	2. 6	4, 842	4,652	190	4.1	2.5	2.5
	9,152	6,500	2,652	40. 8	8, 895	6,500	2,395	36.8	2.9	2.9
	6,060	6,863	-803	-11. 7	5, 743	6,292	-549	-8.7	2.6	2.5
EAST SOUTH CENTRAL	23, 430	21, 450	1,980	9.2	22,940	21, 400	1,540	7.2	2.2	2.1
Kentucky	6,720	6, 300	420	6.7	6,612	6, 300	312	5.0	2.4	2.4
Tennessee	6,343	5, 600	743	13.3	6,268	5, 550	718	12.9	2.0	2.0
Alabama	5,904	5, 700	204	3.6	5,732	5, 700	32	0.6	2.1	2.0
Mississippi	4,463	3, 850	613	15.9	4,328	3, 850	478	12.4	2.1	2.1
WEST SOUTH CENTRAL	33,270	28,882	4, 388	15.2	32,969	29, 984	2,985	10.0	2.4	2.4
Arkansas	4,766	4,200	566	13.5	4,770	4,759	11	0.2	2.5	2.5
Louisiana	6,964	4,661	2, 303	49.4	6,895	4,361	2,534	58.1	2.7	2.7
Oklahoma	7,162	5,886	1, 276	21.7	7,675	7,100	575	8.1	3.0	3.4
Texas	14,378	14,135	243	1.7	13,629	13,764	-135	-1.0	2.0	1.9
MOUNTAIN Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	12,315	10,601	1,714	16, 2	11,985	10,224	1,761	17.2	2.8	2.8
	1,847	1,957	-110	-5, 6	1,831	1,500	331	22.1	3.6	3.8
	1,093	1,080	13	1, 2	1,088	1,080	8	0.7	2.1	2.1
	606	650	-44	-6, 8	648	650	-2	-0.3	2.2	2.5
	4,842	3,758	1,084	28, 8	4,662	3,758	904	24.0	4.2	4.1
	976	920	56	6, 1	975	1,000	-25	-2.5	1.7	1.8
	1,391	850	541	63, 6	1,275	850	425	50.0	2.1	2.0
	1,199	1,086	113	10, 4	1,152	1,086	66	6.1	1.8	1.8
	361	300	61	20, 3	354	300	54	18.0	2.6	2.5
PACIFIC	39, 329	34,564	4,765	13.8	37,668	31,746	5,922	18.7	2.8	2.8
Washington	6, 862	5,600	1,262	22.5	6,826	5,600	1,226	21.9	2.8	2.9
Oregon	4, 047	3,610	437	12.1	4,046	3,610	436	12.1	2.5	2.6
California	28, 420	25,354	3,066	12.1	26,796	22,536	4,260	18.9	2.9	2.8

¹Based on everage daily resident-patients and estimated civilian population as of July 1, for the corresponding year. Source: Series P-25, Nos. 12 and 14, Department of Commerce, Durenu of Census.

²A minus sign (-) denotes everage daily population less than rated capacity.

TABLE 7.--ADMINISTRATIVE STAFF, FULL-TIME, BY OCCUPATION, 1948 AND RATIO OF PATIENTS TO TOTAL STAFF, 1948 AND 1947, STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE

(1948 statistics based on reports from 192 State and 8 Chio receiving hospitals; 1947 statistics based on reports from 127 State and 6 Chio receiving hospitals)

DIVISION	Totsl sdminis-	Superin- tendent	Physi- cians	Graduate	Other	Psycholo- gists and Psychome-	Social workers and field	Other professionsl and semi-	All other	Average deily resident-	R/	T102
STATE	trative staff	tendent	and internes	nurses	and attendants	trists	workers	professional employeesl	employees	patients	1948	1947
UNITED STATES	87,514	191	1,804	3,797	48,441	190	638	3,201	29,252	458,769	5.2	5.6
NEW ENGLAND	8,496	21	192	501	3,914	41	63	337	3,427	40,952	4.8	5.3
Maine New Hampshire	566 616	2	11	15 49	274 274	2 3	3 6	13 24	246 249	2,760 2,446	4.9	5.5 3.6
Vermont	238	1	6	3	115	ī	2	7	103	1,147	4.8	5.4
Massschusetts Rhode Island	4,675 567	13	101 19	294 39	2,127 300	15 1	35 5	196 20	1,894 182	23,412 3,009	5.0	5.5 6.2
Connecticut	1,834	3	45	101	824	19	12	77	753	8,178	4.4	5.0
MIDDLE ATLANTIC	27,494	39	600	1,878	14,936	34	242	1,078	8,687	125,825	4.6	4.8
New York	18,224	21	413	1,309	10, 403	17	169	716	5,176	79,043	4.3	4.6
New Jersey Pennsylvanis	2,936 6,334	14	66 121	174 395	1,282 3,251	5 12	35 38	123 239	1,247 2,264	11,865 34,917	4.0 5.5	4.3 5.8
EAST NORTH CENTRAL	16,962	40	340	565	9,263	64	210	718	5.762	86,785	5.1	5.5
Ohio	4,729	14	76	173	2,888	17	27	151	1,383	22,898	4.8	5.1
Indiana Illinois	1,367 5,748	5 10	29 142	11 186	748 2,657	1 32	105	30 345	539 2,271	8,700 33,708	5.9	8.1 5.8
Michigan	4,528	8	81	163	2,646	14	72	174	1,370	19,468	4.3	5.1
Wisconsin	590	3	12	32	324		2	18	199	2,011	3.4	3.4
WEST NORTH CENTRAL	6,963	24	124	151	4,125	13	19	203 54	2,304	42,626	6.1	6.6
Minnesota Iowa	1,478	7 4	25 23	77	875 574	4	3 8	40	437 430	10,411 6,518	7.0	7.1
Missouri	2,173	5	30	29	1,352	3	6	48	700	12,359	5.7	6.4
North Dakota	272	1	5	3	165	1	-:	10	87	2,054	7.6	7.6
South Dakots Nebrasks	305 987	1 3	7 22	2 25	158 643	2	2	3 39	134 251	1,650 4,403	5.4	5.7
Kansas	654	3	12	4	358	3		9	265	5,231	8.0	9.0
SOUTH ATLANTIC	10,507	23	220	436	5,685	20	47	288	3,788	57,604	5.5	5.8
Delaware Maryland	271 1,058	1 4	8 36	16 7	129 609	5 4	4 19	32 29	76 350	1,226 7,260	6.9	6.1 7.2
District of Columbis	2,474	1	75	267	1,199	3	19	50	870	6,342	2.6	2.6
Virginis	1,552 555	5	17 15	31 12	969 311	4	4 2	31 32	491 177	9,616 4,558	6.2 8.2	7.2
West Virginia North Carolins	1,568	5 4	22	38	808	2	6	52	636	8,410	5.4	6.6
South Carolins	737	1	13	14	351		1	15	342	4,980	6.8	6.2
Georgis Florida	1,088 1,204	1 1	18 16	26 25	674 635	1	1	20 27	348 498	9,152 6,060	8.4 5.0	8.7 5.0
EAST SOUTH CENTRAL	3,085	10	75	39	1,883	3	6	112	957	23,430	7.6	7.6
Kentucky	863	4	28	14	505		2	32	278	6,720	7.8	7.3
Tennessee	708 810	3	15	6	474 527	2	1	15	192	6,343	9.0	8.9
Alabama Mississippi	704	1 2	14 18	9 10	377	1	3	29 36	229 258	5,904 4,463	7.3 6.3	7.6
VEST SOUTH CENTRAL	4,727	11	83	37	2.577	3	19	145	1.852	29,903	6.3	7.2
Arkansas	961	1	16	11	584		1	16	332	4,766	5.0	5.2
Louisiana Oklahoma	1,066 1,042	2 4	17 20	13	552 610	1 1	4 2	30 32	447 366	6,964 7,162	6.5	7.3
Texas	1,658	4	30	6	831	î	12	67	707	11,011	6.6	7.7
OUNTAIN	2,590	9	43	60	1,487	3	9	98	881	12,315 1,847	4.8	4.8
Montana Idsho	321 174	1 2	4 5	6 7	200 90	2	2	13 8	97 58	1,847	5.8	5.5
Wyoming	94	1		4	53	1		2	33	606	6.4	7.2
Colorsdo	1,158	1	22	25	630		2	41	437 109	4,842	4.2	4.4
New Mexico Arizons	254	1 1	4 4	3 7	175 146		3	8 17	76	976 1,391	3.2	3.4
Utah	230	1	3	6	158		2	8	52	1,199	5.2	5.0
Nevsda	59	1	1	2	35			1	19	361	6.1	6.9
ACIFIC Washington	6,690 1,265	14	127 29	130 36	4,571 749	9	23	222 32	1,594 404	39,329	5.9	7.1
Oregon	694	2	15	29	449		2	14	183	6,862 4,047	5.4	6.4
California	4,731	9	83	65	3,373	5	13	176	1.007	28,420	6.0	7.6

¹Includes dentists, dental assistants, pharmacists, clinical essistants, laboratory and X-ray technicisms, dicticisms, therepists and assistants, principals of account of the second second

TABLE 8.--EXPENDITURES BY PURPOSE OF EXPENDITURE, 1948 AND PER CAPITA MAINTENANCE EXPENDITURES, 1948 AND 1947

(1948 statistics based on reports from 192 State and 8 Ohio receiving hospitals; 1947 statistics based on reports from 188 State and 6 Ohio receiving hospitals)

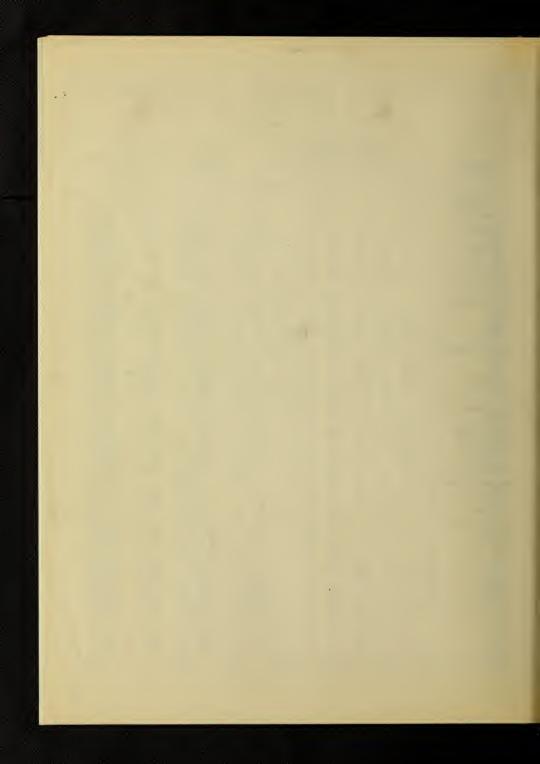
		EXPEN	DITURE (in t	S BY P	URPOSE :	1 9 4 8	
			Exp	penditures for	maintenance		Additions,
DIVISION, AND STATE	Total	Total	Salary and wagea	Purchased provisions	Fuel, light and water	Other maintenance	improvementa and other expenditures
UNITED STATES	\$349,267.6	\$302,390.2	\$165,873.1	\$69,436.1	\$19,483.0	\$47,598.0	\$46,877.4
NEW ENGLAND Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	29,785.7	28,101.9	15,514.7	6,009.8	2,395.7	4,181.7	1,683.8
	1,688.2	1,687.9	811.5	473.9	155.4	247.1	0.3
	2,206.5	1,874.7	968.8	424.2	179.2	302.5	331.8
	1,372.8	713.0	374.2	117.5	56.3	165.0	659.8
	15,841.6	15,727.8	8,915.6	3,128.3	1,521.6	2,162.3	113.8
	1,577.9	1,552.4	891.7	444.9	2.9	212.9	25.5
	7,098.7	6,546.1	3,552.9	1,421.0	480.3	1,091.9	552.6
MIDDLE ATLANTIC	107,147.7	97,764.7	60,430.3	21,223.7	5,936.2	10,174.5	9,383.0
New York	70,586.2	67,909.0	44,401.4	14,043.8	3,883.1	5,580.7	2,677.2
New Jersey	8,666.4	8,464.1	5,070.6	1,676.6	565.3	1,151.6	202.3
Pennsylvania	27,895.1	21,391.6	10,958.3	5,503.3	1,487.8	3,442.2	6,503.5
EAST NORTH CENTRAL	74,310.2	62,922.7	33,350.7	13,053.0	4,354.3	12, 164.7	11, 387.5
Ohio	18,726.7	14,531.6	7,989.8	3,254.6	1,309.7	1,977.5	4, 195.1
Indiana	3,892.7	3,520.4	1,493.2	802.1	332.9	892.2	372.3
Illinoia	30,785.1	26,575.1	11,838.1	6,170.1	1,750.5	6,816.4	4, 210.0
Michigan	18,930.5	16,470.2	10,879.6	2,553.2	815.5	2,221.9	2, 460.3
Wisconsin	1,975.2	1,825.4	1,150.0	273.0	145.7	256.7	149.8
WEST NORTH CENTRAL Minnesota lowa Miasouri North Dakota South Dakota Nebraska Kansas	22,552.2	20,422.5	10,026.1	5,361.4	1,605.8	3,429.2	2, 129, 7
	5,150.5	4,800.1	2,776.8	912.5	354.4	756.4	350, 4
	3,566.0	3,225.5	1,552.4	850.4	271.0	551.7	340, 5
	6,651.3	6,056.5	2,723.6	1,720.6	567.0	1,045.3	594, 8
	963.6	876.9	415.8	229.7	72.3	159.1	86, 7
	708.6	708.6	325.3	207.7	63.5	112.1	
	3,318.6	2,721.9	1,391.6	794.1	128.3	407.9	596, 7
	2,193.6	2,033.0	840.6	646.4	149.3	396.7	160, 6
SOUTH ATLANTIC Delaware Marylmd District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	40,250.0 854.4 5,181.7 9,195.3 5,425.6 2,338.6 6,817.9 2,430.2 3,726.8 4,279.5	35,449,9 854,4 4,377.8 8,921.6 5,006.9 1,842.0 5,258.3 2,430.2 3,171.9 3,586.8	17, 406. 4 379. 0 2, 004. 6 6, 258. 3 1, 956. 8 768. 4 2, 213. 9 883. 5 1, 211. 8 1, 730. 1	9,297.1 220.7 1,232.2 1,266.3 1,631.1 540.3 1,218.8 956.3 1,052.7 1,178.7	2,236.4 67.3 370.8 327.0 230.6 98.7 351.3 153.6 328.4 308.7	6,510.0 187.4 770.2 1,070,0 1,188.4 434.6 1,474.3 436.8 579.0 369.3	4,800.1
EAST SOUTH CENTRAL	9,060.6	8,986.1	3,337.4	3,245.5	660.5	1,742.7	74.5
Kentucky	2,661.5	2,637.7	1.132.2	1,049.8	267.8	187.9	23.8
Tennessee	1,970.3	1,950.3	591.3	947.2	72.7	339.1	20.0
Alabama	2,895.5	2,895.5	1,051.6	768.9	223.1	851.9	
Misaissippi	1,533.3	1,502.6	562.3	479.6	96.9	363.8	30.7
WEST SOUTH CENTRAL	14,261.6	12,921.4	4,790.8	4,184.8	528.8	3,417.0	1,340.2
Arkansas	2,286.3	2,149.7	892.1	546.5	93.1	618.0	136.6
Louisiana	2,643.7	2,603.5	1,038.1	798.8	102.3	664.3	40.2
Oklahoma	4,081.4	3,405.5	1,063.4	1,146.3	153.3	1,042.5	675.9
Texas	5,250.2	4,762.7	1,797.2	1,693.2	180.1	1,092.2	487.5
MOUNTAIN Montana ldaho Wyomang Colorado New Mexico Arizona Utah Nevada	8,820.3 1,253.9 651.4 284.1 3,663.6 824.5 1,189.5 701.1 252.2	8,215.1 1,042.4 604.3 284.1 3,501.9 740.4 1,095.3 694.5 252.2	4,603.5 531.1 300.5 96.8 2,214.9 361.6 548.0 448.1 102.5	1,501.8 380.5 111.5 58.0 539.2 170.1 144.6 59.0 38.9	433.3 35.1 55.4 18.9 173.7 54.4 44.0 23.9 27.9	1,676.5 95.7 136.9 110.4 574.1 154.3 358.7 163.5 82.9	605.2 211.5 47.1
PACIFIC	43,079.3	27,605.9	16,413.2	5,559.0	1,332.0	4,301.7	15,473.4
Washington	6,928.4	4,674.1	2,665.1	1,324.0	318.3	366.7	2,254.3
Oregon	5,419.5	2,122.1	1,126.5	410.8	136.9	447.9	3,297.4
California	30,731.4	20,809.7	12,621.6	3,824.2	876.8	3,487.1	9,921.7

TABLE 8.--EXPENDITURES BY PURPOSE OF EXPENDITURE, 1948 AND PER CAPITA MAINTENANCE EXPENDITURES, 1948 AND 1947--Continued

(1948 statistics based on reports from 192 State and 8 Obio receiving hospitals; 1947 statistics based on reports from 188 State and 6 Obio receiving hospitals)

DIVISION	PE	RCENTAGE DISTI MAINTENANCE	RIBUTION OF 19 EXPENDITURES	48	Average daily resident-		CAPITA EXPENDITURES 1
AND STATE	Salaries and wages	Purchased provisions	Fuel, light and water	Other maintenance	patients 1948	1948	1947
UNITED STATES	54.8	23.0	6.4	15.7	458,769	\$ 659.13	\$ 547.84
NEW ENGLAND Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	55. 2 48. 1 51. 7 52. 5 56. 7 57. 4 54. 3	21.4 28.1 22.6 16.5 19.9 28.7 21.7	8.5 9.2 9.6 7.9 9.7 0.2 7.3	14.9 14.6 16.1 23.1 13.7 13.7	40,952 2,760 2,446 1,147 23,412 3,009 8,178	686. 22 611. 53 766. 45 621. 65 671. 79 515. 92 800. 45	579.76 549.49 692.85 517.52 579.13 392.90 635.17
IDDLE ATLANTIC New York New Jersey Pennsylvania	61.8 65.4 59.9 51.2	21.7 20.7 19.8 25.7	6. 1 5. 7 6. 7 7. 0	10.4 8.2 13.6 16.1	125,825 79,043 11,865 34,917	776.99 859.14 713.36 612.64	645.26 700.32 617.66 527.24
EAST NORTH CENTRAL Ohio Indiana Illinois Michigan Wisconsin	53.0 55.0 42.4 44.5 66.0 63.0	20.8 22.4 22.8 23.2 15.5 15.0	6.9 9.0 9.5 6.6 5.0 8.0	19.3 13.6 25.3 25.7 13.5	86,785 22,898 8,700 33,708 19,468 2,011	725.04 634.62 404.64 788.39 846.01 907.70	609.63 561.00 340.05 696.56 615.95 868.63
WEST NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	49.1 57.8 48.1 45.0 47.4 45.9 51.1 41.3	26.2 19.0 26.4 28.4 26.2 29.3 29.2 31.8	7.9 7.4 8.4 9.4 8.2 9.0 4.7 7.4	16.8 15.8 17.1 17.2 18.2 15.8 15.0	42,626 10,411 6,518 12,359 2,054 1,650 4,403 5,231	479.11 461.07 494.86 490.04 426.88 429.48 618.19 388.65	403.81 382.38 410.45 390.32 417.63 365.24 542.85 351.08
OUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida	49. 1 44. 4 45. 8 70. 1 39. 1 41. 7 42. 1 36. 4 38. 2 48. 2	26. 2 25. 8 28. 1 14. 2 32. 6 29. 3 23. 2 39. 3 33. 2 32. 9	6.3 7.9 8.5 3.7 4.6 5.4 6.7 6.3 10.4 8.6	18. 4 21. 9 17. 6 12. 0 23. 7 23. 6 28. 0 18. 0 18. 2 10. 3	57,604 1,226 7,260 6,342 9,616 4,558 8,410 4,980 9,152 6,060	615. 41 696. 91 603. 00 1, 406. 75 520. 69 404. 11 625. 25 487. 99 346. 58 591. 88	495.36 533.26 452.97 1,219.21 373.03 349.36 457.28 465.30 312.11 435.48
AST SOUTH CENTRAL Kentucky Tennessee Alabama Mississippi	37.1 42.9 30.3 36.3 37.4	36.1 39.8 48.6 26.6 31.9	7.4 10.2 3.7 7.7 6.5	19.4 7.1 17.4 29.4 24.2	23,430 6,720 6,343 5,904 4,463	383.53 392.52 307.48 490.43 336.67	328. 18 312. 23 260. 14 419. 05 298. 40
EST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas	37.1 41.5 39.9 31.2 37.7	32. 4 25. 4 30. 7 33. 7 35. 6	4.1 4.3 3.9 4.5 3.8	26.4 28.8 25.5 30.6 22.9	29,903 4,766 6,964 7,162 11,011	432.11 451.05 373.86 475.50 432.54	376.73 361.06 350.75 349.06 417.85
OUNTAIN Montana Idaho Wyoming Colorado New Mexico Arizona Utaah Newada	56.0 50.9 49.7 34.1 63.2 48.8 50.0 64.5 40.6	18.3 36.5 18.4 20.4 15.4 23.0 13.2 8.5 15.4	5.3 3.4 9.2 6.6 5.0 7.4 4.0 3.5 11.1	20. 4 9. 2 22. 7 38. 9 16. 4 20. 8 32. 8 23. 5 32. 9	12,315 1,847 1,093 606 4,842 976 1,391 1,199 361	667.08 564.39 552.91 468.85 723.24 758.61 787.41 579.22 698.48	575.64 483.63 490.79 240.37 677.86 580.67 631.51 509.07 581.28
ACIFIC Washington Oregon California	59.5 57.0 53.1 60.7	20. 1 28. 3 19. 3 18. 4	4.8 6.8 6.5 4.2	15.6 7.9 21.1 16.7	39,329 6,862 4,047 28,420	701.92 681.15 524.36	544.80 645.56 425.92

 $^{^{1}\}mathrm{Based}$ on average daily resident-patient population of hospitals reporting expenditures.



MENTAL HEALTH STATISTICS

Current Reports

FEDERAL SECURITY AGENCY, Public Health Service, National Institute of Mental Health

ember 1951

Bethesda 14, Maryland

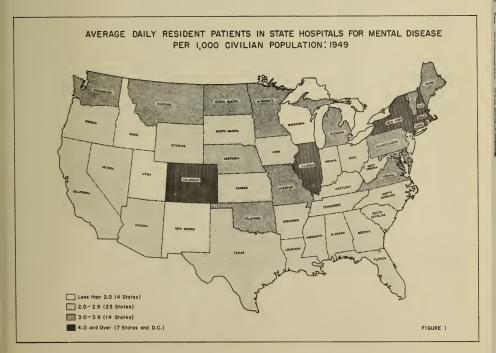
Series IMH-B52, No.

PATIENTS IN STATE MENTAL HOSPITALS: 1949

The average daily resident patient population in State mental hospitals in 1949 was 475,540. This means that, on the average, there were slightly more than 3 patients per 1,000 population in daily residence in such hospitals throughout the United States during 1949. There was considerable interstate variation, New York, for instance, having a ratio of 5.6 compared to 1.7 in New Mexico.

Since State hospitals accounted, in general,

for about 95 percent of the resident patient population in all non-federal public hospitals for the mentally ill, it would appear that the differences mentioned above are fairly good indices of variation in the extent to which facilities for the care of the mentally ill were available. It is evident from figure 1 that the Southern and Western States, with few exceptions, had low ratios compared to the Northern and Eastern ones. The picture in 1948 was similar to that in 1949.



¹Based on estimated civilian population as of July 1 of the corresponding year. Source: Series P-25, No. 47, Dept. of Commerce, Bureau of Census.

(Statistics based on reports from 199 State and 8 Ohlo receiving hospitals)

		ON BEGIN	BOOKS A	T YEAR	ADMIS DURING	SIONS YEAR		SEPA	RATIONS	DURINO Y	EAR		ON	BOOKS A	T
DIVISION	Number			In			In	Disch	arges	Dea	ths	Out			In
AND STATE	hospitals rsporting	In hos- pital	In family care	other extra- mural care	First admis- sions	Re- admls- sions	trans- fers	From hos- pital	From extra- mural care	In hos- pital	In extra- mural care	trans- fers	In hos- pital	In family care	other sxtra- mural care
UNITED STATES	207	468,799	2,917	74,227	104,365	34,738	8,852	34,121	49,099	39,147	960	9,666	478,003	3,457	79,456
NEW ENGLAND	21	41,385	481	4,832	10,019	3,198	459	4,540	3,803	4,083	56	504	41,662	513	5,213
Malne	2	2,756		215	508	194	11	158	241	234		1	2,809		24 1
New Hampshire Vermont	1	2,439 1,179		489 28	836 367	243 159		195 248	663	331 111			2,516		403
Massachusetts Rhode Island	13	23,675	197	2,569	5,567	1,559	403	2,800	1,729	2,261	27	475	23,633	199	2,846
Connecticut	3	3,029 8,307	263 21	454 1,077	950 1,891	252 791	14 31	290 849	301 848	348 798	11 18	2 26	3,166 8,314	289 25	1,240
MIDDLE ATLANTIC	41	127.870	1,119	15,443	23,445	7,845	2,007	4,326	11.576	10,346	237	2,209	131,367	1,231	16,437
New York	21	80,390	1,119	8,673	15,163	5,173	1,668	2,999	6,770	6,866	204	1,837	82,942	1,231	9,33
New Jersey Pennsylvania	3 17	11,958 35,522		1,660 5.110	3,054 5.228	1,211	131 208	1,327	1,233 3,573	1,093 2,387	33	188 184	12,334 36,091	==	1,806 5,296
EAST NORTH CENTRAL	48	88,551	770	12,949	21,958	8,778	1,504	10,818	8,763	7,705	154	1.875	90,002	1,041	14,15
Ohio	20	23,166	98	1,240	5,967	2,354	825	2,885	3,087	1,747	67	730	23,169	100	4,865
Indiana Illinois	6 11	9,170	344	635 2.836	1,497	347	100	112	836	762	21	109	9,286	509	3,259
Michigan	8	19,128	344 328	2,836 1,498	9,203	4,414 953	307 157	6,081	2,656 1,583	3,487 1,544	44	304 174	35,608 19,830	432	4,687
Wisconsin	3	1,987		740	1,639	710	115	1.018	601	165	22	558	2,109		7 18
WEST NORTH CENTRAL	25	42,644		7,697	6.790	1,896	718	1,837	3,487	3,280	137	991	42,175		7,868
Minnesota Iowa	7 5	10,388 6,488		1,664 2,982	1.888	628 265	628 70	565 139	1,047 567	984 527	30 35	654	10,285 6,366		1,63
Missouri	5	12,473		1,183	1,635	437	7	222	1,060	883	7	5	12,353		1,20
North Dakota South Dakota	1 1	2,078 1,651		244	414 377	105 117		140	185 42	157 159	3		2,107 1,618	==	249
Nebraska Kansas	3	4,420 5,146		646 958	819 505	201 143	7 36	332 132	301 285	252 318	3 59	26	4,426 5,031		937
SOUTH ATLANTIC	23	57,986	265	9,318	12,660	4,531	659	3,375	7,201	4,382	39	659	59,667	251	9,846
Delaware	1	1,236		381	363	88		76	196	99			1,263		437
Maryland Dist. of Columbia	4	7,445 6,345	263	1,198 317	1,229	631 323	96	339 496	924 362	482 446	. 19	37	7,543	250	1, 16
Virginia	5	9,696		2,039	2,286	1,512	15	959	1,607	829		56	10,001		2,12
West Virginia North Carolina	4	4,315 8,496	2	981 1,382	1,387 1,816	532 429	50 299	860 177	573 1,098	404 565	7 4	60 309	4,603 8,751	1	1,61
South Carolina	1	5,050		1,043	1,502	391		369	875	434			6,096	=	1,21
Georgia Florida	1 2	9,367 6,036	=	1,367 607	1,925	465 260	169	21 78	1.138 428	732 391		197	9,586 6,371		1,647
EAST SOUTH CENTRAL	11	23,790		3,762	5.851	1,807	523	1,165	3,994	1.961	15	579	24,353		3,66
Kentucky	4	6,733		1,088	1,517	355	421	449	707	601	15	412	6,872		1,05
Tennessee Alabama	3	6,415 6,045		398	1,156	390 632	20	563	424	518		7 20	6,451		39
Mississippl	2 2	4,597	== ;	788 1,488	1,567	430	82	140 13	1,283	444 398	==	140	4,760	==	1,31
WEST SOUTH CENTRAL	15	34,007	85	7.368	8,322	2,492	1,028	2,587	4.331	2.477	44	1,151	34,545	159	8,008
Arkansas	1	4,733		1,898	1,582	461		226	1.249	395		8	4,819		1,98
Louisiana Oklahoma	2	6,940 7,437		1,540 914	1,449	298 652	98 10	142 339	995 838	387 538	7	63 7	7.093		1,638
Texas	8	14.897	85	3.016	4.088	1.078	920	1,880	1.249	1.157	36	1,073	15,111	159	3,41
MOUNTAIN	9	12,448		4.713	2,743	899	282	1,067	1.123	1,074	78	24	12,698		5,02
Montana	1	1,836		2,715	396	212 186	1	103	39	156 112	12		1,875		2,980
Idaho Wyoming	2 1	1,117 611		190 52	320 116	83		64	150 47	67		3	1,103 617		6
Colorado New Mexico	1	4.850		607 574	671 246	154	282	136 31	187 339	457 84	15 48	21	5,035		713
Arizona	1	1,019 1,448		360	575	89		260	184	107	3		1.443		47
Utah Nevada	1 1	1,208 359		175 40	309 110	157 10		238 52	119 58	74 17		==	1,239 352	==	175
PACIFIC	14	40,118	197	8,145	12.577	3,292	. 1,642	4,406	1.821	3,839	200	1,663	41,534	262	9,21
			137		1,772	387	38	413	687	782	13	32	7,045		999
Washington Oregon	3 2	6,940 4,130		834 943	1,264	309	18	563	381	455	23	34	4,184		1.02
California	9	29.048	197	6,368	9,541	2,596	1,586	3,430	3,753	2,602	164	1.597	30,305	262	7,22

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Comparability of statistics.--Statistics based on State hospital data must be interpreted with caution due to limitations of reporting, such as variations in coverage from year to year and the limited scope of the data requested. Although from a bookkeeping point of view, data on movement, for instance, have been considered adequate, if not completely satisfactory, for the purposes of most users, it is obvious that the time has come when a concerted effort must be made to increase both the scope of the information sought in the Census and the completeness of coverage and to improve the calibre of reporting.

It should be borne in mind that in States such as Wisconsin and New Jersey, with a system of county mental hospitals designed to accept people who, in other States, would normally be admitted to State mental hospitals, data pertaining to average daily resident-patient population and other categories of movement in State hospitals are not strictly comparable to those in other States. However, in Iowa, because of the relationship between State and county hospitals, all patients in county hospitals are considered as in "other extramural care" and carried as such in the State hospital data. In similar fashion, the presence in a State of large private hospitals such as Brattleboro Retreat in Vermont or of Federal facilities for mentally ill veterans may decrease the number of admissions to the State hospitals and, hence, the need for State facilities.

Coverage. -- The statistics presented here are provisional, covering either the calendar year or the fiscal year ending in the calendar year and are based on data furnished to the National Institute of Mental Health on annual census schedules by the individual hospitals or appropriate State mental health boards.

All 207 State hospitals (including 8 Ohio receiving hospitals) submitted movement schedules for 1949 showing a total of 104, 365 first admissions, 478,003 resident patients at the end of the year, and an average daily resident patient population of 475,540 persons. Schedules of first admissions by age and diagnosis were submitted by 193 hospitals with 94.7 percent of the total first admissions; schedules of administrative staff and of expenditures by 206 and 205 hospitals, respectively. The hospitals reporting staff and expenditures data accounted for 99.1 and 99.0 percent respectively of the average daily resident population.

Movement of population. -- Table 1 shows the movement of population in State mental hospi-

tals for the United States, by Division and State; due to limitations of space certain totals have been eliminated. Statistics on the movement of population which present a formal accounting of the flow of patients in or out of institutions during the course of a year, involve four major categories: (1) patients on books at the beginning of the year, (2) all admissions, (3) all separations, (4) patients on books at the end of year. For any year the number of patients on the books at the beginning of the year plus the total number of admissions should equal the sum of all separations during the year plus the number of patients on the books at the end of the year.

Almost 700,000 persons were reported as on the books of State hospitals for mental disease throughout the country during 1949. In view of the fact that there is some duplication in the data when the same individual in the course of the year is admitted to more than one hospital or to the same hospital two or more times the reported 693,898 patient transactions represented an overstatement for the 207 reporting hospitals.

Data reported in table 1 have certain limitations. For example, first admission figures undoubtedly include an unknown number of patients who have received hospitalization in a mental institution previously. Review of transfer and extramural care data indicate that studies of interstate variations in definitions of such movement categories are necessary. In States where private hospitals do not report to a central State authority, it is not known to what extent transfers represent movement of patients from one hospital to another within the same system or represent a true gain or loss of patient population.

Table 2 presents the basic data and summary rates per 100,000 population for 1949 for first admissions, patients on the books during the year, and resident patients at the end of the year. The corresponding rates for 1948 are shown. Rates for 1948 are based on the latest available population data. Since most admissions to public hospitals for mental disease are to State mental hospitals, and since admissions to these hospitals are limited, in general, to residents of the respective States, the statistics here presented may be of aid in making crude interstate comparisons.

Some 478,003 persons or 324.0 per 100,000 population remained as resident patients in these hospitals at the end of the year. It is interesting to note that during the year the number of resident patients remaining in State mental hospitals increased by about 2 percent

TABLE 2.--SUMMARY DATA FOR MOVEMENT OF POPULATION, IN STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE, 1949, WITH RATES, 1949 AND 1948

(Statistics for both years based on reports from 199 State and 6 Ohio receiving hospitals)

		MOV	EMENT OF POPU	LATION: 1949				RATE P	ER 100,0	00 POPUL	TION1	
DIV1SION AND STATE	Patients on books at beginning	First ad- missions	Re- admissions	All discharges	Deaths in	Patients on books at end	Finadmis		On b	ooks year ²	Resident tient end of	ts at
	of year					of year	1949	1948	1949	1948	1949	194
UNITED STATES	545,943	104,365	34,738	83,220	39,147	560,916	70.8	69.7	470.4	462.3	324.0	323.
NEW ENGLAND	46,698	10,019	3,198	8,343	4,083	47,388	107.6	102.8	648.2	643.5	447.3	450.
Maine New Hampshire	2,971	508 836	194 243	399 758	234 331	3,050	56.4 161.1	61.7	408.9	419.4	311.8	314
New Hampshire Vermont	2,928	836	243 159	758	331	2,918 1,253	100.3	94.4	473.5	455.7	334.7	330.
Massachusetts	26,441	5,567	1,559	4,529	2,261	26,678	117.2	108.7	715.3	714.3	497.6	503
Rhode Island	3,746	850	252	591	348	3,910	109.4	101.0	625.7	587.3	407.5	391
Connecticut	9,405	1,891	791	1,697	798	9,579	94.5	97.4	605.6	600.3	415.5	420
AIDDLE ATLANTIC	144,432	23,445	7,845	15,902	10,346	149,035	78.5	77.2	595.3	587.1	440.0	438
New York	90,182	15, 163	5,173	9,769	6,866	93,510	103.0	101.5	762.3	747.9	563.6	559
New Jersey	13,618	3,054	1,211	2,560	1,093	14, 140	64.4	65.1	380.0 457.2	379.1 455.0	260.2	256
Pennsylvania	40,632	5,228	1,461	3,573	2,387	41,385	50.3	48.4	457.2	455.0	347.2	348
EAST NORTH CENTRAL	102,270	21,958	8,778	19,581	7,705	105,195	73.1	74.8	447.6	441.6	299.5	299
0hio	27,504	6,967	2,354	5,972	1,747	28,134	74.7	81.1	458.9	450.1	290.1	291
Indiana	9,806	1,497	347	948	762	9,909	38.6 107.2	37.7 106.1	301.8 604.6	297.4 596.4	236.5 414.6	239
Illinois Michigan	37,980 24,254	9,203	4,414 953	6,737 2,305	3,487 1,544	39,376 24,949	66.3	60.3	463.3	457.4	316.6	315
Wisconsin	2,727	1,639	710	1,619	166	2,827	49.3	49.2	156.2	158.6	83 4	61
WEST NORTH CENTRAL	50,341	6,790	1,896	5,324	3,280	50,043	49.6	54.3	436.6	446.9	306.2	316
Minnesota	12,052	1,888	628	1,612	984	11,916	64.8	69.0	521.3	523.3	352.8	36
Iowa	9,470	1,122	265	706	527	9,353	44.0	42.1	428.5	430.9	249.3	26
Missouri	13,656	1,635	437	1,282	683	13,658	41.9	48.3	402.9	412.8	316.3	32:
North Dakota South Dakota	2,322	414 377	105 117	325 349	167 159	2,356 1,657	71.0 61.3	66.5	487.3 352.0	486.8 364.5	361.4 263.1	27
Nebraska	1,671 5,066	849	201	633	252	5,235	66.3	59.7	478.0	472.4	345.4	35
Kansas	6,104	606	143	417	318	6,968	27.5	49.5	369.5	417.2	273.9	288
SOUTH ATLANTIC	67,569	12,660	4,531	10,576	4,382	69,763	62. 1	62.0	418.7	417.5	292.6	291
Delaware	1,620	363	88	272	99	1,700	114.2	98.4	651.3	612.0	397.2	381
Maryland	8,906	1,229	531	1,263	482	8,961	53.3	62.5	466.9	472.5	327.2	321
District of Columbia	6,662	1,147 2,286	323 1,512	858 2,566	446 829	6,825 12,127	141.8	126.7 67.4	1005.2 485.7	938.1 470.6	810.1	30
Virginia West Virginia	11,735 5,296	1,387	532	1,433	404	5,361	71.6	77.2	375.1	391.0	232.5	24
North Carolina	9,880	1,816	429	1,275	565	10,271	46.7	42.6	319.5	325.3	225.0	22
South Carolina	6,093	1,502	391	1,244	434	6,308	75.8	77.4	403.1	398.7	257.2 289.1	26
Georgia Florida	10,734 6,643	1,925 1,005	465 260	1, 159 506	732 391	11,233 6,977	58.1 38.1	58.6 39.0	395.8	310.3	241.7	244
EAST SOUTH CENTRAL	27,552	6,851	1,807	5,159	1,961	28,019	52,5	62.9	320.5	313.6	218.4	21
	7.821	1,517	355	1,156	601	7,930	53.6	63.3	357.1	340.7	242.7	24
Kentucky Tennessee	7,821 6,813	1,517	355	1,156	518	6,847	35.5	43.4	256.7	265.3	198 - 1	20
Alabama	6,833	1,567	632	1,423	444	7,165	52.3	50.1	302.1	294.4	209.3	20
Mississippi	6,085	1,611	430	1,693	398	6,077	77.9	71.6	397.1	380.6	230.3	22
WEST SOUTH CENTRAL	41,460	8,322	2,492	6,918	2,477	42,712	59.0	54.9	377.7	359.5	244.8	23
Arkansas	6,631	1,582	464	1,475	395	6,799	86.7	85.8	475.5	465.2	264.1	26
Louisiana	8,480	1,449	298	1,137	387	8,731	55.3	41.3	393.9	377.3	270.6 356.3	25 35
0klahoma Texas	8,351 17,998	1,203 4,088	652 1,078	1,177 3,129	538 1,157	8,493 18,689	57.0 54.1	58.9 51.1	483.9 318.8	297.3	200.0	35 18
MOUNTAIN	17,161	2,743	899	2,190	1,074	17,719	57.1	54.9	438.9	377.7	264.3	26
Wontana	4,551	396	212	142	156	4.861	71.0	53.0	924.6	438.9	336.0	34
Idaho	1,307	320	186	333	112	1,356	56.1	54.6	318.1	294.8	193.5	19
Wyoming	663	116	83	111	67	681	42.8	42.4	318.1	310.2	227.7	23
Colorado	5,457	671 246	154	323 370	457 84	5,748 1,345	54.5 39.6	54.3	532.8	538.8	166.5	17
New Mexico Arizona	1,593	246 575	8 89	370 444	107	1,918	80.0	81.3	343.8	315.2	200.7	20
Utah	1,383	309	157	357	74	1,418	45.8	47.2	273.9	269.3	183.6	18
Nevada	399	110	10	110	17	392	70.1	68.6	330.6	328.9	224.2	22
PACIFIC	48,460	12,577	3,292	9,227	3,839	51,042	88.9	80.4	466.4	454.0	293.7	29
Washington Oregon	7,774	1,772 1,264	387 309	1,100	782 455	8,044 5,208	76.6 84.8	71.0	430.9 446.9	423.1	304.5	30

Estimated civilian population as of July 1, for the corresponding year. Source: P-25, No. 47, Department of Commerce, Burcau of Consus.

Patients on books during year comprises patients on books at beginning of year and all admissions including transfers.

TABLE 3. --FIRST ADMISSIONS TO STATE HOSPITALS FOR MENTAL DISEASE, BY AGE AND SEX, FOR THE UNITED STATES, 1949, WITH RATES FOR 1949 AND 1948

(Statistics for both years based on reports from 199 State and 8 Ohio receiving hospitals)

AGE	ADMIS	FIRST ADMISSIONS: 1949	449	PERCENT DISTRIBUTION OF TOTAL FIRST	PERCENT DISTRIBUTION F TOTAL FIRST			RATE PER 100,000 ¹ CIVILIAN POPULATION	100,000	N.	
IN YEARS				ADMIS	ADMISSIONS		1949			1948	
	Total	Male	Female	1949	1948	Total	Male	Female	Total	Male	Female
All Ages	104,365	57,586	46,779	100.0	100.0	70.8	79.2	62.5	69.7	76.3	63.2
Under 15	903	564	349	0.0	1.0	2.2	2.7	1.8	2.3	2.7	1.8
15 to 19	3,589	2,086	1,503	3.7	3.7	34.6	41.2	28.4	32.3	38.1	26.6
20 to 24	6,481	3,692	2,789	9.9	6.3	57.0	67.7	47.1	50.0	55.7	44.7
25 to 29	7,828	3,980	3,848	8.0	7.6	62.9	69.7	62.4	59.6	61.2	58.2
30 to 34	8,685	4,330	4,355	8.9	8.6	77.9	81.4	74.7	71.5	72.9	70.2
to	9,282	5,114	4,168	9.5	9.5	86.4	98.0	75.5	82.8	92.2	73.9
40 to 44	8,958	5, 168	3,790	9.2	0.8	6.06	106.6	75.6	85.2	99.3	71.6
45 to 49	8,056	4,587	3,469	8.8	8.0	88.9	102.6	75.6	82.7	94.1	71.7
50 to 54	6,752	3,775	2,977	6.9	7.0	83.0	93.5	72.6	80.8	86.1	75.5
55 to 59	6,125	3,554	2,571	6.3	6.4	83.6	97.3	69.9	81.4	91.3	71.3
60 to 64	6,035	3,537	2,498	6.2	6.3	100.0	117.5	82.7	100.3	116.3	84.2
65 to 69	6,141	3,538	2,603	6.3	9.9	137.6	161.8	114.3	140.6	168.6	113.6
70 and over	18,836	9,933	8,903	19.3	20.0	277.5	315.4	244.7	279.7	308.1	254.9
Not reported ²	6,694	3,738	2,956	E E	!	1	1	1	1	1	1
Median age	46.9	47.2	46.6	1	ţ	8	ľ	1	1	1	1

Estimated civilian population as of July 1, for the corresponding year. Source: Series P-25, No. 39, Department of Commerce, Bureau of Census.

diagnosis (b) first admissions on movement schedules of hospitals not submitting schedules of first admissions 2 Not reported includes (a) first admissions shown on age and diagnosis schedules, but by age only and not by by age and diagnosis (c) first admissions with diagnosis but unknown age.

TABLE 4.--FIRST ADMISSIONS TO STATE HOSPITALS FOR MENTAL DISEASE, BY MENTAL DISORDER AND SEX, FOR THE UNITED STATES, 1949, WITH PERCENTS AND RATES: 1949 AND 1948

(Statistics for both years based on reports from 199 State and 8 Ohio receiving hospitals)

	N	UMBE	R	Distri	ent bution otal		RATE F	PER 100,0	000 POPt	LATION	2
MENTAL DISORDER		1949			rst sions ¹		1949			1948	
	Total	Male	Female	1949	1948	Total	Male	Female	Total	Male	Female
All patients	104,365	57,586	46,779	100.0	100.0	70.8	79.2	62.5	69.7	76.3	63.2
With psychosis	79,980	41,691	38,289	81.6	83.0	54.2	57.4	51.2	52.8	54.6	51.1
General paresis	3,641	2,616	1,025	3.7	4.5	2.5	3.6	1.4	2.8	4.1	1.6
With other forms of syphilis of the C. N. S.	639	456	183	0.7	0.7	0.4	0.6	0.2	0.5	0.6	0.3
With epidemic encephalitis	119	75	44	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1
With other infectious diseases	176	108	68	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Alcoholic	5,055	4,145	910	5.2	5.0	3.4	5.7	1.2	3.2	5.2	1.2
Due to drugs and other exogenous poisons	413	202	211	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Traumatic	476	394	82	0.5	0.5	0.3	0.5	0.1	0.3	0.6	0.1
With cerebral arteriosclerosis	15,139	8,693	6,446	15.5	15.7	10.3	12.0	8.6	10.0	11.2	8.7
With other disturbances of circulation	527	305	222	0.5	0.8	0.4	0.4	0.3	0.4	0.5	0.3
With convulsive disorders	1,397	782	615	1.4	1.6	0.8	1.1	0.8	1.0	1.2	0.9
Senile	11,252	5,361	5,891	11.5	12.5	7.6	7.4	7.9	7.9	7.6	8.3
Involutional psychosis	4,487	1,260	3,227	4.6	4.5	3.0	1.7	4.3	2.9	1.6	4.2
Due to other metabolic, etc., diseases	622	270	352	0.6	0.7	0.4	0.4	0.5	0.5	0.4	0.5
Due to new growth	209	115	94	0.0	0.2	0.1	0.2	0.1	0.1	0.1	0.1
With organic changes of the nervous system	1,117	634	483	1.1	1.1	0.8	0.9	0.6	0.7	0.8	0.6
Manic-depressive	5,685	2,178	3,507	5.8	6.1	3.9	3.0	4.7	3.9	2.9	4.9
Schizophrenia (dementia praecox)	22,212		12,017	22.7	20.9	15.1	14.0	16.1	13.3	11.8	14.7
Paranoia and paranoid conditions	981	547	434	1.0	1.1	0.7	0.8	0.6	0.7	0.7	0:7
With psychopathic personality	866	574	292	0.9	1.0	0.6	0.8	0.4	0.6	0.9	0.4
With mental deficiency	2,360	1.278	1.082	2.4	2.6	1.6	1.8	1.4	1.6	1.8	1.5
Other and undiagnosed psychoses	2,607	1,503	1,104	2.7	2.9	1.8	2.1	1.5	1.9	2.1	1.6
Psychoneuroses	4,133	1,671	2,462	4.2	4.1	2.8	2.3	3.3	2.6	2.2	3.0
Without psychosis or psychoneurosis	13,864	10,666	3,198	14.2	12.9	9.4	14.7	4.3	8.2	12.6	3.9
Epilepsy	406	253	153	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.2
Mental deficiency	1,339	871	4.68	1.4	1.3	0.9	1.2	0.8	0.9	1.1	0.8
Alcoholism	7,056	6,042	1,014	7.2	6.2	4.8	8.3	1.4	3.9	6.7	1.2
Drug addiction	452	241	211	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Personality disorders due to epidemic encephalitis	64	38	26	0.1	0.1	(4)	0.1	(4)	(4)	(4)	(4)
Psychopathic personality	1,323	992	331	1.4	1.3	0.9	1.4	0.4	0.8	1.3	0.4
Primary behavior disorders	524	340	184	0.5	0.6	0.4	0.5	0.2	0.4	0.5	0.3
Other, unclassified, and unknown	2,700	1,889	811	2.8	2.6	1.8	2.6	1.1	1.7	2.4	0.9
Mental disorder not reported ³	6,388	3,558	2,830								

Etatimated civilian population as of July 1, for the corresponding year. Source: Series P-25, No. 39, Department of Commerce, Bureau of Census.

Stental disorder not reported includes (a) first admissions shown on age and diagnosis schedules, but by age only and not by diagnosis,
(b) first admissions for hospitals not submitting schedules of first admissions by age and diagnosis but reporting total first admissions elsewhere. Leas than . 05.

over the 468,799 persons in these hospitals at the beginning of the year.

For the country as a whole it may be noted that, between 1948 and 1949, there was a 1.6 percent increase in the first admission rate, a 1.8 percent increase in the rate for patients on the books during the year, and a 0.2 percent increase in rates pertaining to resident patients at the end of the year. These increases must be interpreted with caution since availability of hospital facilities, increase in

medical, nursing and attendant personnel, as well as other factors, often exercise greater influence over these rates than true changes, if any, in the incidence and prevalence of hospitalizable mental disorders in the population. It is well to remember, moreover, that just as a new therapeutic measure or a change in discharge policy may account for a sharp drop in resident patients at the end of the year in a given State, so may an increase in resident patients in another State be due to the availability of additional hospital facilities as well as to a real increase in incidence and prevalence. In other words, whatever changes occur may be due to any of a number of causes acting singly or in combination and it is difficult to determine the relative effect of each such cause.

First admissions by age and sex.--In table 3 are shown the number of first admissions by age and sex, 1949, and the corresponding percents and rates per 100,000 population, 1949 and 1948. There was very little difference between the percent distribution for the two years. Almost one-third of the first admissions occurred in individuals 60 years of age and over. In 1949, first admission rates for males exceeded those for females in every age group. The rate for both sexes, with few exceptions, increased steadily with age, showing a marked spurt after age 60.

First admissions by diagnosis, age and sex. -- Table 4 presents the number of first admissions to State mental hospitals by diagnosis and sex, 1949, and the respective percents and rates per 100,000 population for 1949 and 1948. The percent distribution of mental disorders appears to show little change in the two years under consideration. In males, as well as in females, patients diagnosed as psychotic accounted for over 80 percent of all diagnosed first admissions. The diagnosis of schizophrenia was reported in about 23 percent of these admissions, psychosis with cerebral arteriosclerosis in 16 percent, senile psychosis in 12 percent, and manic-depressive psychosis in 6 percent. Thus, these four diagnoses accounted for more than half of all diagnosed first admissions.

Among the psychoses, the following diagnoses showed markedly higher rates for males than for females: general paresis, psychosis with other forms of syphilis of the central nervous system, alcoholic psychosis, psychosis due to trauma, and psychosis with psychopathic personality. As was to be expected, the female rates were distinctly higher for the involutional psychoses. These findings were also in evidence in 1948 rates.

Table 5 gives age specific first admission rates, by diagnosis, to State mental hospitals in 1949. These data are shown graphically in figure 2. It is evident that in the age group 15-49 years schizophrenia showed the highest age specific first admission rates. For the next several years of age the involutional psychoses predominated. From age 60 on a sharp increase in the first admission rate of mental diseases of the senium accounted for the markedly increased total first admission rates.

The probability of being hospitalized with a mental disease was far greater after age 60 than at any other period of life. The peak age specific rates for all mental disorders combined, excluding mental diseases of the senium, was reached at 40-44 years and dropped thereafter to the end of the life span.

Administrative statistics.--Comparative statistics for 1949 and 1948 for State mental hospitals on overcrowding, expenditures, and administrative staff are reported in tables 6, 7 and 8 respectively.

Overcrowding .-- Although the number of beds provided for patients in these hospitals has been constantly increasing, the demand for these beds has most often exceeded the supply. New facilities are filled almost as rapidly as they are completed. As a consequence, in a great number of States, overcrowding is a common phenomenon. In table 6 the degree of overcrowding in these hospitals is measured by the excess of average daily resident-patient population over rated capacity, expressed as a percentage of rated capacity. The average daily resident-patient population is taken as a crude measure of the number of beds provided. It should be noted that the definition of rated capacity varies from State to State and probably within the same State at different times. In 1949, the degree of overcrowding in State hospitals for mental disease in the United States was 18.1 percent as compared to 18.2 percent in 1948. In 1949, as well as in 1948, it was greatest in Illinois and Louisiana where the average daily resident population in State hospitals was about one and a half times their rated capacity. On the other hand, a number of States, six in 1948 and seven in 1949, reported a rated capacity greater than their average daily resident-patient population. There is no inference that more bed space or more adequate facilities were provided in these States than elsewhere. Table 6 also shows the average daily resident-patients per 1,000 population for the years under consideration.

Administrative staff. -- The adequacy of care received by patients in any hospital largely depends upon the relationship between the number and type of well trained personnel and the number of patients under care. This relationship may be crudely expressed in terms of the average number of patients served by each full-time employee. The variation from hospital to hospital, however, in the number of employees not directly associated with patient care, such as farm workers, etc., would affect the meaningfulness of such ratios. The number and type of personnel on duty in State mental hospitals for the United States, by Division and State,

							RATE PI	R 100,0	0001					
MENTAL DISORDERS							Age	(in ye	ars)					
	A11	Under	15	20	25	30	35	40	45	50	55	60	65	70
	ages	15	to 19	to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	and over
All patients	70.8	2.2	34.6	57.0	65.9	77.9	86.4	90.9	88.9	83.0	83.6	100.0	137.6	277.6
With psychosis	54.2	0.8	24.5	43.5	50.1	57.9	62.0	66.3	67.3	56.1	70.1	89.4	129.4	270.8
General paresis	2.5	(2)	0.3	0.4	0.9	1.8	4.4	5.8	7.3	5.9	5.4	4.4	3.8	1.8
With other forms of syphilis of the CNS	0.4	(2)	0.1	0.1	0.2	0.4	0.7	1.0	1.0	1.1	0.9	1.0	0.8	0.4
With epidemic encephalitis	0.1	(2)	0.1	(2)	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	(2)
With other infectious diseases	0.1	(2)	0, 1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Alcoholic	3.4	(2)	0.1	0.9	2.2	4.7	6.8	8.7	9.4	7.9	6.8	5.3	4.0	0.8
Due to drugs and other exogenous poisons	0.3	(2)	0.1	0.1	0.2	0.3	0.4	0.8	0.7	0.6	0.5	0.4	0.5	0.3
Traumatic	0.3	(2)	0.2	0.2	0.4	0.3	0.4	0.5	0.7	0.6	0.7	0.6	0.6	0.3
With cerebral arteriosclerosis	10.3		(2)		(2)	0.1	0.1	0.6	1.8	6.4	14.0	36.6	57.7	119.2
With other disturbances of circulation	0.4	(2)	(2)	(2)	0.1	0.1	0.3	0.4	0.6	0.9	0.9	1.2	1.5	1.6
With convulsive disorders	0.9	0.1	1.4	2.0	1.7	1.6	1.6	1.4	1.0	1.0	0.8	0.6	0.4	0.3
Senile +	7.6			(2)	(2)	(2)	(2)	0.1	0.1	0.4	1.3	8.6	28.6	136.5
Involutional psychosis	3.0		(2)	(2)	0.1	0.2	0.9	4.7	10.5	13.9	13.2	9.8	4.3	0,6
Due to other metabolic, etc., diseases	0.4	(2)	0.1	0.2	0.2	0.3	0.3	0.4	0.6	1.2	1.6	1.3	1.1	0.8
Due to new growth	0.1		(2)	0.1	0.1	(3)	0.1	0.2	0.3	0.4	2.2	0.5	2.1	0.4
With organic changes of the nervous system	0.8	(2)	0.3	0.2	0.4	0.5	0.8	1.0	1.5	1.9	2.2	2.3	2.1	1.1
Manic-depressive	3.9	(2)	1.3	3.0	4.6	6.5	8.1	8.1	7.3	6.7	6.8	6.5	4.1	1.3
Schizophrenia (dementia praecox)	15.1	0.4	15.8	30.1	32.7	34.4	30.0	23.6	16.9	11.5	8.8	5.4	3.4	1.2
Paranois and paranoid conditions	0.7		(2)	0.1	0.3	0.5	0.9	1.6	1.8	1.7	2.0	1.5	1.3	0.4
With psychopathic personality	0.6	(2)	1.0	1.4	1.3	1.1	0.9	0.8	0.5	0.3	0.3	0.2	0.2	0.1
With mental deficiency	1.5	0.1	2.9	3.2	2.9	2.8	2.4	2.2	2.0	1.6	1.3	0.8	0.7	0.2
Other and undiagnosed psychoses	1.8	0.1	0.9	1.4	1.8	2.1	2.4	2.8	3.0	3.0	3.0	3.1	3.7	3.4
Psychoneuroses	2.8	0.1	1.6	3.6	5.1	5.9	6.5	5.0	4.0	3.5	3.1	2.7	2.1	0.7
Without psychosis or psychoneurosis	9.4	1.3	8.4	9.8	10.7	13.9	18.8	19.5	17.4	13.3	10.3	7.7	6.0	6.6
Epilepsy	0.3	0.1	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.2	0.1	0.1	0.1	(2)
Mental deficiency	0.9	0.4	2.3	2.2	1.4	1.2	0.9	0.9	0.6	0.7	0.5		0.3	1.0
Alcoholism	4.8	(2)	0.1	1.3	3.6	7.6	12.7	14.1	12.5	9.1	6.6	0.3	0.2	0.1
Drug addiction	0.3		0.1	0.2	0.4	0.5	0.6	0.8	(2)	0.5	0.4	(2)	(2)	(3)
Personality disorders due to epidemic encephalitis	(2)	(2)	(2)	(3)	2.0	1.6	1.2	0.1	0.8	0.1	0.1	0.1	0.2	0.1
Psychopathic personality	0.9	0.1	2.1	2.5	0.3	0.2	0.3	0.8	0.8	0.5	0.3	(2)	0.1	(3)
Primary behavior disorders	1.8	0.5	1.5	2.5	2.5	2.4	2.6	2.4	2.3	2.2	2.1	2,0	2.5	4.1
Other, unclassified, and unknown	1.8	0.2	1.8	2.5	2.5	2.4	2.0	2.9	2.3	1 2.2	2.1		210	

¹Estimated civilian population as of July 1, 1949. Source: Series P-26, No. 39, Department of Commerce, Bursau of Census.
²Less than .05.

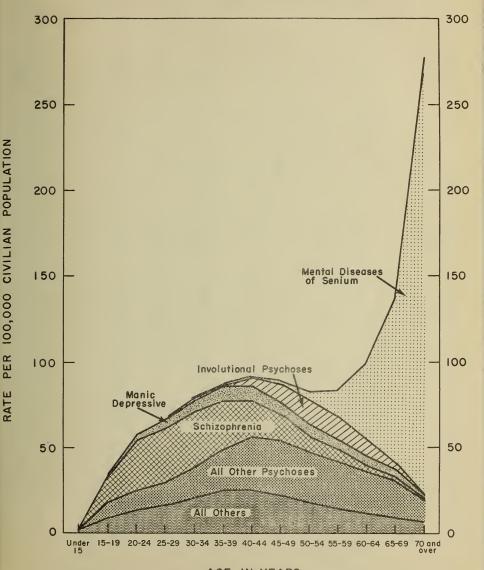
in 1949 are shown in table 7 together with the ratio of patients to full-time employees. For comparative purposes there are included similar ratios for 1948. It should be noted that the ratio of patients to total employees is not as meaningful as the ratio of patients to employees of specific occupational groups. Thus hospitals really tending to fulfill a therapeutic function may differ markedly in their patientphysician ratio from those where the major emphasis appears to be on custody. For the country as a whole the need for full-time physicians in State mental hospitals was about 51 percent met, based on 1941 standards approved by the APA1. The deficiencies in personnel are and have been most severe in physicians, clinical psychologists, psychiatric social workers, nursing personnel, attendants and other specialized therapeutic workers.

Expenditures. -- Table 8 presents statistics on expenditures classified by purpose of expenditure for State mental hospitals, and percent distribution of maintenance expenditures, by Division and State, for the year 1949 and per capita expenditures for maintenance for

1949 and 1948. The per capita expenditure for maintenance for State mental hospitals reporting such data for 1949 was \$719.30 compared to \$659.13 in 1948. This was an overall increase of about 9 percent in per capita cost. There was considerable interstate variation reflecting in part geographical and fiscal year variation in the general price level and, in part, variations in the type and adequacy of care provided. The degree to which hospitals were self supporting by the production of their farms and their varying needs for such items as fuel, light and water were also reflected in their per capita maintenance expenditures. For the country as a whole, about 58 percent of the State mental hospitals maintenance dollar was spent for salaries and wages, 21 percent for purchased provisions, 6 percent for fuel, light and water and 15 percent for other items of maintenance. Here also there was considerable variation between States in the relative expenditures for various maintenance items. For example, 68 percent of New York's maintenance dollar was spent for salaries and wages while only 33 percent of Tennessee's dollar was spent for the same purpose.

By these standards there would be, exclusive of the superintendent, one physician for every 200 resident patients and one physician for every 100 admissions during the year, excluding transfers.

FIRST ADMISSION RATES FOR SELECTED DIAGNOSES, BY AGE, TO STATE HOSPITALS FOR MENTAL DISEASE UNITED STATES, 1949



POPULATION

CIVILIAN

PER

AGE IN YEARS

TABLE 6.--EXCESS OF AVERAGE DAILY RESIDENT-PATIENTS OVER RATED CAPACITY OF STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE: 1949 AND 1948

(Statistics for both years based on reports from 199 State and 8 Ohio receiving hospitals)

		OVERCROWD1	NG: 1949			OVERCROWD1	NG: 1948		AVERAGE	DAILY
DIVISION AND STATE	Average daily resident	Rated capacity	Excess of over c	population apacity ¹	Average daily resident	Rated capacity		population apacity ¹	RESIDENT- PER 1.000 POPULA	CIVILIA
	patients		Number	Percent	pat1ents		Number	Percent	1949	1948
UNITED STATES	475,540	402,822	72,718	18.1	463,496	392,224	71,272	18.2	3.2	3.2
NEW ENGLAND	41,558	36,294	5,264	14.5	40,952	34,722	6,230	17.9	4.5	4.5
Maine	2,788	2,298	490	21.3	2,760	2,207	553	25.1	3.1	3.1
New Hampshire	2,483	2,114 982	369 229	17.5	2,446	2,114 858	332 289	15.7 33.7	4.8	4.8
Vermont Massachusetts	1,211 23,663	20,490	3,173	15.5	1,147 23,412	19,397	4,015	20.7	5.0	5.0
Rhode Island Connecticut	3,114 8,299	2,700 7,710	414 589	15.3 7.6	3,009 8,178	2,700 7,446	309 732	11.4 9.8	4.0	3.9 4.1
WIDDLE ATLANTIC	129,694	104,490	25,204	24.1	126,272	101,849	24,423	24.0	4.3	4.3
New York	81,694	68,339	13,355	19.5	79,043	65,874	13,169	20.0	5.6	5.5
New Jersey	12,127	8,949	3,178	35.5	11,865	8,949	2,916	32.6	2.8	2.6
Pennsylvania	35,873	27,202	8,671	31.9	35,364	27,026	8,338	30.9	3.5	3.5
EAST NORTH CENTRAL	90,039	69,008	21,031	30.5	87,577	68,008	19,569	28.8	3.0	3.0
Ohio	23,526	20,254	3,272	16.2	22,898 9,029	20,099 8,978	2,799	13.9	2.9	2.9
Indiana Illinois	9,231 35,484	8,706 22,676	12,808	56.5	34,171	21,932	12,239	55.8	4.1	4.0
Michigan Wisconsin	19,759 2,039	15,598 1,774	4,161 265	26.7 14.9	19,468 2,011	15,264 1,735	4,204	27.5 15.9	3.2	0.6
WEST NORTH CENTRAL	42,681	39,489	3,192	8.1	42,747	39,416	3,331	8.6	3.1	3.2
Minnesota	10,276	10,068	208	2.1	10,411	10,404	7	0.1	3.5	3.7
lowa Miasouri	6,408	5,109 10,706	1,299 2,011	25.4	6,639 12,359	5,072 10,662	1,567 1,697	30.9 15.9	2.5	2.7
North Dakota	2,086	2,000	86	4.3	2,064	2,000	54	2.7	3.6	3.7
South Dakota Nebraska	1,682	1,888 4,389	-226 40	-12.0 0.9	1,650 4,403	1,888	-238	-12.6	2.7	2.8
Kansas	5, 103	5,329	-226	-4.2	5,231	6,004	227	4.5	2.8	2.9
SOUTH ATLANTIC	59,022	53,430	5,692	10.5	57,604	52,732	4,872	9.2	2.9	2.9
Delaware	1,244	1,250	-6	-0.5	1,226	1,250	-24	-1.9	3.9	3.9
Maryland District of Columbia	7,506 8,829	6,187 6,007	1,319	21.3	7,260 6,342	5,755 6,007	1,505	26.2 5.6	8.2	7.4
Virginia	9,803	8,330	1,473	17.7	9,616	8,300	1,316	15.9	3.1	3.0
West Virginia North Carolina	4,449 8,638	3,089 9,378	1,360 -740	44.0	4,558 8,410	3,789 9,413	763 -1,003	20.3	2.3	2.4
South Carolina	5,053	5,050	3	0.1	4,980	4,855	125	2.6	2.6	2.6
Georgia Florida	9,448 8,252	7,000	2,448	35.0	9,152	6,500 6,863	2,652 -803	40.8	2.8	2.6
rlorida	8,252	7,139	-867	-12.4	6,060					
EAST SOUTH CENTRAL	24,101	22,430	1,871	7.4	23,430	21,450 6,300	1,980	9.2	2.2	2.1
Kentucky Tennessee	6,814 6,498	6,600 8,230	214	4.3	6,343	5,600	743	13.3	2.0	2.0
Alabama Mississippi	8,164 4,625	5,800 3,800	364 825	8.3 21.7	5,904 4,463	5,700 3,850	204 613	3.6 15.9	2.1	2.0
WEST SOUTH CENTRAL	34,931	30,830	4,301	14.0	33,270	28,882	4,388	15.2	2.5	2.4
Arkansas	4,838	4,800	38	0.8	4,766	4,200	566	13.5	2.7	2.6
Louisiana	7,010	5,061	1,949	38.5	6,984	4,661	2,303	49.4	2.7	2.1
Oklahoma Texas	7,852 15,231	6,485 14,284	1,367 947	21.1	7, 162 14, 378	5,886 14,135	1,276 243	1.7	2.0	1.9
MOUNTAIN	12,681	11,340	1,341	11.8	12,315	10,601	1,714	16.2	2.6	2.7
Montana	1,862	1,957	-95	-4.9	1,847	1,957	-110	-5.6	3.3	3.5
Idaho Wyoming	1,101	1,080	21 -22	1.9	1,093	1,080 650	13 -44	1.2 -6.8	2.3	2.3
Colorado	4,938	3,758	1,180	31.4	4,842	3,758	1,084	28.8	4.0	4.1
New Mexico	1,040	930	110	11.8	976 1,391	920 850	56 541	6.1 83.6	1.7	2.0
Arizona Utah	1,515 1,236	1,445 1,220	16	1.3	1,199	1,086	113	10.4	1.8	1.
Nevada	361	300	61	20.3	361	300	61	20.3	2.3	2.
PACIFIC	40,833	35,711	5,122	14.3	39,329	34,564	4,765	13.8	2.9	2.1
Washington	6,933	5,239	1,694 52	32.3	6,862 4,047	5,600 3,610	1,262	22.5	3.0	3.0
Oregon California	4,225	4,173	3,376	12.8	28,420	25,354	3,066	12.1	2.9	2.8

A minus sign (-) denotes average daily population less than rated capacity.

Passed on average daily resident-patients and estimated civilian population as of July 1, for the corresponding year.

Source: Sortes P-20, No. 47, Department of Commence, Bureau of Cemman.

TABLE 7.--ADMINISTRATIVE STAFF, FULL-TIME, BY OCCUPATION, 1949 AND RATIO OF PATIENTS TO TOTAL STAFF, 1949 AND 1948, STATE HOSPITALS FOR MENTAL DISEASE, BY DIVISION AND STATE

(1949 statistics based on reports from 198 State and 8 Ohio receiving hospitals: 1948 statistics based on reports from 192 State and 8 Ohio receiving hospitals)

DIVISION AND STATE	Total adminis- trative staff	Superin- tendent	Physi- cians and internes	Graduate nurses	Other nurses and attendants	Psycholo- gists and psychome- trists	Social workers and field workers	Other professional and semi- professional	All other employees	Average daily resident- patients ²	RAT	194
	Bull		Ancornes		a conducto	Cilets	MOLEGER	employees1		pacients-		
UNITED STATES	99,061	195	1,907	4,306	56,100	233	719	3,621	31,981	471,260	4.8	5.
NEW ENGLAND	9,907	19	197	567	5,079	39	66	356	3,585	41,558	4.2	4.
Maine New Hampshire	592 768	2 1	10 17	19 69	316 376	2 3	4 6	21 23	218 273	2,788 2,483	3.2	4.
Vermont Massachusetts	254 5,653	1 11	3 102	8 319	134 2,908	1 15	1 39	10 206	96 2,053	1,211 23,663	4.8	5.
Rhode Island Connecticut	549 2,091	1 3	19 46	38 114	305 1,040	2 16	5 10	18 78	161 784	3,114 8,299	5.7	5
HIDDLE ATLANTIC	30,569	38	629	2,078	17,024	34	243	1,266	9,257	129,694	4.2	4
New York New Jersey	20,264 3,114	19 4	428 73	1,409 179	11,938 1,357	16 5	170 29	903 129	5,381 1,338	81,694 12,127	4.0 3.9	4
Pennsylvania	7,191	15	128	490	3,729	13	44	234	2,538	35,873	5.0	5
EAST NORTH CENTRAL	17,698	42	305	617	9,645	75	188	803	6,023	85,759	4.8	5
Ohio Indiana	5,003 1,470	15 6	70 30	192 17	3,085 825	26 2	32 7	182 43	1,401 540	23,526 9,231	4.7 6.3	6
Illinois Michigan	6,466 4,080	11 7	131 57	205 162	3,013 2,351	30 17	100 47	400 156	2,575 1,283	35,484 15,479	5.5	5 4
Wisconsin	680	3	17	41	371		2	22	224	2,039	3.0	3
WEST NORTH CENTRAL	8,337	25	135	178	5,007	21	28	254	2,689	42,681	5.1	6
Minnesota Iowa	1,808	7 5	27 29	77 26	1,106 688	3 4	5 12	66 50	518 497	10,276 6,408	5.7	7
Missouri North Dakota	2,391 293	5	22	31	1,520 177	5	7	54 10	747 96	12,717	5.3	5 7
South Dakota Nebraska	334 1,098	1 3	10	2 27	168 725	1 3	3	5 49	147 257	1,662 4,429	5.0	5
Kansas	1,102	3	11	12	624	4	1	20	427	5,103	4.6	8
SOUTH ATLANTIC	11,655	22	246	491	6,385	29	51	334	4,097	59,022	5.1	5
Delaware Maryland	339 1,230	1 4	8 43	31 9	169 734	5 9	4 20	34 44	87 367	1,244 7,506	3.7 6.1	6
District of Columbia Virginia	2,435 1,613	5	72 21	265 40	1,175 1,009	3 4	7 5	57 30	855 499	6,629 9,803	2.7 6.1	6
West Virginia North Carolina	627 1,888	4	18 36	15 48	339 1,008	2 4	5 6	32 48	212 734	4,449 8,638	7.1	8
South Carolina Georgia	760 1,468	1	12 22	17	351 924	==	1 3	8 38	370 440	5,053 9,448	6.6	6
Florida	1,295	1	14	26	676	2		43	533	6,252	4.8	5
EAST SOUTH CENTRAL	3,620	11	73	37	2,292	4	11	113	1,079	24,101	6.7	7
Kentucky Tennessee	1,165 731	4 3	28 15	12 4	777 491	4	7	40 15	297 199	6,814 6,498	5.8	9
Alabama Mississippi	908 816	2 2	12 18	9 12	598 426		4	16 42	271 312	6,164 4,625	6.8 5.7	6
EST SOUTH CENTRAL	6,142	15	103	74	3,477	11	38	211	2,213	34,931	5.7	6
Arkansas Louisiana	1,108 1,035	1 2	23 15	19 17	627 545	1	4 6	44 46	389 403	4,838 7,010	6.8	5 6
Oklahoma Texas	1,363 2,636	4 8	21 44	14 24	879 1,426	2 7	3 25	23 98	417 1,004	7,852 15,231	5.8 5.8	6
OUNTAIN	2,883	9	67	89	1,627	6	10	105	970	12,681	4.4	4
Montana Idaho	392 227	1 2	5 5	11 16	244 108	1	4	15 27	115 64	1,862 1,101	4.8	5
Wyoming Colorado	115	1	1	4 33	67	1	1 2	2	38	628	5.5	6
New Mexico	264	1	40	5	130	2	1	35 5	443 116	4,938 1,040	4.0 3.9	3
Arizona Utah	359 234	1	7 5	11 7	205 158	1	1	13 8	121 53	1,515 1,236	4.2 5.3	5
Nevada	55	1		2	. 32				20	361	6.6	е
ACIFIC	8,250	14	152	174	5,564	14	85	179	2,068	40,833	4.9	5
Washington Oregon	1,285	3 2	30 18	37 37	769 541	3 2	6	35 17	402 231	6,933 4,225	5.4	5 5
California	6,114	9	104	100	4,254	9	76	127	1,435	29,675	4.9	6

Includes dentists, dental assistants, phermacists, clinical assistants, laboratory and X-ray technicians, dicticians, therapists and assistants, principals of schools, teachers of grade and special subjects.

2 includes only population of hospitals reporting administrative staff.

3 Patients per full-time employee.

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1,104.0	1.753	2.875	E-616,1	8.098,1	9.986.6	9.060,8	
9*988	1.256	0.865	5.481,1	8.098.1	0.810,8	5.405,4	lorida
	1.978	1.731	E-178	1,820,1	8.SET,S	\$ 705 P	813109
326.9						3,058.4	outh Carolina
1,803.0	9.692,1	320.4	2,782,1	0.806,2	5,113,2	2,916,7	orth Carolina
7.48€	6.786	1.06	238*3	7,867	1,755.0	7.661,S	statgatv sas
8.166,1	₱*692	0.172	1,502.8	2,1324.5	9,788,4	₱.658,8	atnigai
194.3	1.408	7.066	6.804,1	8*966*9	8.048,6	8.468,6	latrict of Columbia
2.56₽	822° 1	403.0	E.47E,1	2,111.2	2.040,4	0.464,8	aryland
3.4.6	7.741	₽.88	2.4.2	485.1	₽,619	6.726	elaware
	1						
6.761,7	\$.078,8	2,233.0	€"#89"6	20,080,5	38,568.3	9.297,34	TH ATLANTIC
7.97	0.084	163.5	6.178	8.612,1	8,534.8	2,113,5	sesue
6.464	7.894	7.841	0.929	1,668.2	6,116,5	3,346,5	ebraska
2.69	290,1	1.09	\$.08I	1.355.1	9.148	8.646	oncy peroce
2.03	202.6	85.3	204.3	9,608	7.100,1	1,026.7	orth Dakota
1,211.5		0.499	0.687,1	7,144,8	5.816,0		
	1,070.6			2 100 6		7.321,8	Istoasi
0,727	562.4	326.3	8.848	1.068,1	0.710,8	0.446,4	DAG
181.4	2.847	3.786	3.406	0.151,6	5,171,8	5,552.6	Innesota
		1					
7.826,2	3,782.5	1,835.2	6.281,8	12,225.5	1,020,62	8.139,32	T NORTH CENTRAL
]					
					111		
1,030.4	6*##6	2.001	9,172	1,510.5	2,716,2	7.746,6	geconein
4,039.0	1,856.6	7.187	2,153.1	7,806,8	0.080,11	1.611,81	Tchigan
8,181,8	0,318,0	8.056,1	6,654.2	13,362.7	7.265.7	32,447.5	atonifi
2,742,1	1.778	7.986	6*000'T	6.246,1	4,207.6	8,454,8	analbn
6,523,6	0,010,2	1,355.9	1.766,6	6.678,8	8.154,31	8.879,12	oth
18,022,1	9.#14,01	4,628.3	6.974,61	34,802.7	\$.SSE, 68	8.448,18	T NORTH CENTRAL
	l .						
	ł.					1	
6.186,6	3,532,8	1,635.8	6,788,8	9.867,SI	1.363,55	\$.956,85	enneytvania
247.3	4.754,1	0*889	7,146,1	9,001,6	7.708,6	0.297,6	ennsylvania
9'09%'\$	2,808,8	4,435.2	14,485.2	53,802.7	78,626.2	7.970,88	es Jork
	1						
8,059,2	\$.638,01	0.607,8	8.418,15	8.148,57	0.627,111	2.887,611	DIE ATLANTIC
8,608,2	1,022.8	7.788	1,632.6	4,283.5	9.964,7	2,006,01	onnecticut
8.35	215.1	(2)	€.68₽	1,072.6	1.777.1	1,812.4	hode Island
3.17	2,474.1	1,547.7	3,282.0	12,116.2	0.054,61	8.761,61	assachusetta
1.04	0.881	1.59	103.2	8.844	7.647	8.687	J nom1s
8.168	1,594	8.481	2.121	8,786	8,860,2	7.086,5	ew Hampshire
2.5es	1.746	0.811	6.234	6*016	6.888,1	2,164.4	ex Hampshire
- 200		0 871	0 051	0 010	0 090 1	n rat e	Sulei
1.44.1	4,654.2	2,503,2	1.986.1	9.797,81	33,351.2	6.864.76	ENGTWND
**096 * \$9\$	4°166'6#\$	\$21,120.2	6,480,278	\$.068.891\$	1.727,866\$	\$404,687.5	UNITED STATES
		water					
exbend1tures	аривиозитев		PLOATOTADIA	sagar	tensnce		
and other		pure	provisions	pire	-urem		
improvements	19430	11811	Purchased	Salary	IntoT	Total	STATE GMA
, anolitbbA		Fuel				1 -	DIVISION STATE
		enence	nditures for main	Expe			MINISTON
	-						1
	-6	a) REOSE: IO	ES BY PU	I O I I O N S J V S	,		

TABLE 8.--EXPENDITURES BY PURPOSE OF EXPENDITURE, AND PER CAPITA MAINTENANCE EXPENDITURE TABLE STATE MEMORY TO PER CAPITA MAINTENANCE FYPENDITURE (1949 statistics based on reports from 197 State and 8 Ohio recenting hompitals)

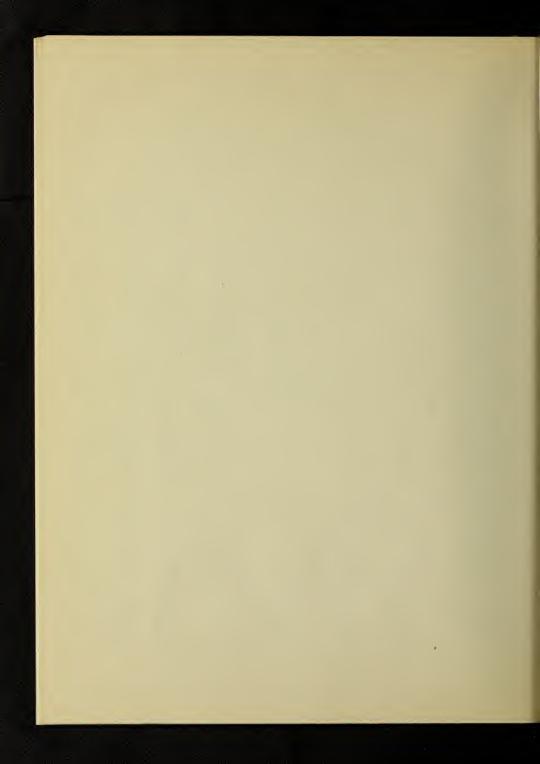
TABLE 8.--EXPENDITURES BY PURPOSE OF EXPENDITURE, AND PER CAPITA MAINTENANCE EXPENDITURE STATE MENTAL HOSPITALS: 1949--Continued

(1949 statistice based on reports from 197 State and 8 Ohio receiving hospitals; 1948 statistics based on reports from 192 State and 8 Ohio receiving hospitals)

DIVISION AND STATE			ISTRIBUTION OF EXPENDITURES 1		Average daily resident- patients	PER CAP	
AND STATE	Salariee and wages	Purchased provisions	Fuel, light and water	Other maintenance	1949	1949	1948
UNITED STATES	57.7	21.3	6.2	14.8	470,914	\$719.30	\$659.13
NEW ENGLAND	59.4	19.2	7.5	14.0	41,558	802.52	686.22
Maine	48.7	24.8	7.9	18.6	2,788	670.33	611.53
New Hampehire Vermont	47.5 69.5	20.8	9.1	22.7 17.7	2,483 1,211	821.12 619.07	756.45 621.65
Massachueette	62.4	15.9	8.0	12.7	23,663	820.69	571.79
Rhode Island Commecticut	60.4 57.1	27.5 21.8	(2) 7.4	12.1 13.6	3,114 8,299	570.67 903.32	515.92 800.45
MIDDLE ATLANTIC	55.0	19.3	6.0	9.7	129,594	861.48	776.99
New York	68.4	18.4	5.6	7.5	81.694	962-45	859.14
New Jereey	64.2	14.1	6.7	15.0	12,127	784.01	713.36
Penneylvania	54.0	24.1	6.9	15.0	35,873	657.74	612.64
EAST NORTH CENTRAL	55.0	21.3	7.3	16.4	85,413	741.37	725.04
Ohio	56.2	22.0	8.8	13.1	23,526	556.80 473.57	634.62 404.64
Indiana Illinoie	46.2 49.0	23.8 24.4	9.2	20.8 19.5	8,885 35,484	768.39	788.39
Michigan	55.1	15.3	5.4	13.2	15,479	909.62	846,01 907,70
Wieconein	65.2	11.7	8.2	14.9	2,039	1,136.46	907.70
WEST NORTH CENTRAL	53.1	22.5	8.0	16.4	42,681	539.49	479.11
Minnesota	50.5	17.5	7.5 9.0	14.5 15.3	10,276 6,408	503.23 554.46	461.07 494.86
Iowa Mlesouri	52.3 49.8	23.5 25.1	9.6	15.5	12,717	543.78	490.04
North Dakota	50.9	20.4	8.5	20.2 33.2	2,086 1,662	480.18 525.25	426.88 429.48
South Dakota Nebraska	38.3 57.3	21.7 21.5	6.9 5.1	16.1	4,429	657.39	618.19
Kaneae	49.3	26.5	5.4	17.8	5,103	496.73	388.65
SOUTH ATLANTIC	52.1	25.1	5.8	17.0	59,022	553.45	615.41
Delaware	53.1	24.5	6.2	16+2	1,244	734.27	695.91
Maryland	46.8	27.8 14.6	8.2	17.2 9.4	7,506 6,629	658.20 1,454.29	603.00 1,406.75
Dietrict of Columbia Virginia	72.6 47.8	30.9	5.6	15.8	9,803	496.54	520.69
Weet Virginia North Carolina	42.1 47.6	30.7 21.1	5.1 5.7	22.1 25.7	4,449 8,538	394.48	404.11 625.25
South Carolina	37.6	31.9	5.8	24.7	5,053	540.78	487.99
Georgia	39.5	32.2	8.3 6.9	20.1 13.5	9,448 6,252	383.04 537.55	346.58 591.88
Plorida	46.7	32.9	6.9	13.5	0,202	031100	001100
EAST SOUTH CENTRAL	39.9	29.5	4.8	25.8	24, 101	410.85	383.63
Kentucky Tennessee	48.3	(2) 36,4	(2) 8.3	51.7 22.3	6,814 6,498	372.45 319.45	392.52 307.48
Alabama	38.8	46.3	5.8	9.1	6,164	560.04	490.43
M1ee1se1pp1	38.3	30.8	5.6	25.3	4,625	397.00	336.67
WEST SOUTH CENTRAL	40.6	29.5	4.0	25.9	34,931	485.60	432.11
Arkansas	43.8	20.1	4.7	31.3	4,838	508.35	451.05
Loulelana Oklahoma	41.8	28.6 30.4	3.7	25.9 26.1	7,010 7,852	453.46 460.66	373.86 475.50
Texas	39.9	32.4	3.6	24.2	15,231	606.03	432.54
MOUNTAIN	59.7	16.4	4.9	19.0	12,681	699.64	667.08
Montana Idaho	58.0	30.9	3.6	7.5 23.2	1,862	595.37 630.50	564.39 552.91
Wyoming	51.1 40.4	16.7 14.1	9.0 6.4	39.0	1,101 628	632.93	468.85
Colorado	65.0	14.6	4.7	15.7 27.0	4,938 1,040	766.67 749.56	723.24 758.51
New Mexico Arizona	48.7 60.1	17.8 10.5	5.5 3.2	26.1	1,515	719.40	787.41
Utah	62.8	10.5	4.7	22.0 7.5	1,236 361	684.14 473.94	579.22 598.48
Nevada	62.8	25.8	3.9	7.5	301	413.94	050.48
PACIFIC	60.2	19.6	4.9	15.3	40,833	808.01	701.92
Waehington Oregon	57.0 57.2	27.2 16.0	8.1	7.7 19.9	6,933 4,225	720.53 602.56	681.15 524.35
Oregon California	57.2 61.1	16.0	6.9	19.9	29,675	857.70	732.22

PRINCIPLE TO THE PROPERTY OF THE PRINCIPLE AND PRINCIPLE A

Figures may not add to totals because of rounding.
Sata not reported.
**Phased on severage daily resident-patient population of hospitals reporting expenditures.





U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

RIL 1953

BETHESDA 14. MARYLAND

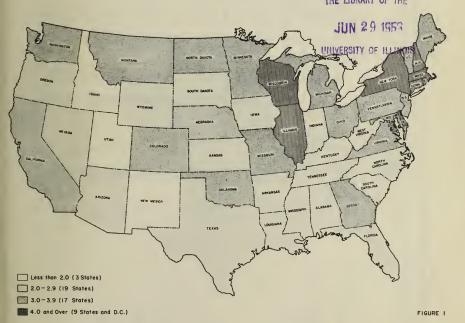
SERIES IMH-B53, No. 2

PATIENTS IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL, 1951

county hospitals for the prolonged care of the men- dealt with data for the year 1950.

This is the second in a series of reports pre-senting summarized information¹ on the State and lished in December of 1952 (Series IMH-B53, No. 1)

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 1,000 CIVILIAN POPULATION: 1951



Data are based on preliminary tabulations made for the hospitals reporting in the 1951 Census of Patients in Mental Institutions. Final editing and tabulation of these data may subject them to revision when prepared for final publication.

²This report does not include data for neuropsychiatric patients in Veterans Administration hospitals. Data by State of residence or for first admission status were not available. All admissions of these Continued on page 4

SUMMARY DATA AND RATES FOR PATIENTS AND PER CAPITA MAINTENANCE EXPENDITURES IN PUBLIC BOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL: UNITED STATES, 1951

Per capita	expenditures	\$825.62	552.75	845.14	634.16	943.08	1,048.52	907,18	1,591,86	732.60	522.24	848,33	836.67	554,23	00000	20.026	480.51	723.46	870.52	1.006.25	1,041,23	901.75	509.10	689,35	800.82	914.30	821.94	1,031.93	886.04	858,70	983.66	809.72	585,01	722,77	794.50
AILY ATIENT	Rate5	3,4	2.2	2.0	2,53	3°.	, 4, 5, 50	4.1	8.8	2.3	3.0	o	7.5	4.0	3 0	0.0	2.7	3.2	K.	2	3.0	3.6	2.4	3.1	3.3	3.4	2.3	4.8	3.9	1.6	5.8	2.3	3.57	3.1	2.5
AVERAGE DAILY RESIDENT PATIENT POPULATION	Number	515,108	6,592	1,559	4,721	32,821	8,668	1,339	6,780	6,678	10,077	1,144	26,657	9,625	20,000	4,910	7.301	2,813	ARL A	23,673	19,854	10,852	5,155	12,221	1,930	4,551	374	2,568	19,034	1,120	87,045	9,205	2,095	24,729	4,414
Patients on	end of year	610,458	7,430	1,959	6,234	42,043	10,004	1,839	7,078	7,549	12,165	1,474	\$09,80 4	10,458	0,040	0,000	9.045	3,111	9 475	26.852	25,991	12,505	7,492	13,564	4.717	5,998	453	3,048	22,261	1,486	98,352	11,184	2,389	29,788	5,478
S IN	Rate4	64.1	56.2	9.99	49.9	60.3	75.1	49.9	52,3	45.8	61.0	73.6	9°T/	65.7	0.0	*0.0	40.2	65.3	3.7.F	74.9	66.1	69.3	47.2	52.2	65,5	53.0	39.5	95.6	79.4	41.2	70.2	43.5	65.0	60.4	75.9
DEATHS IN HOSPITAL	Number	42,027	477	140	333	2,769	870	16	424	361	772	131	2,435	751	0000	677	370	229	362	2.305	1,601	948	367	747	156	318	21	331	2,021	57	7,478	514	172	1,887	525 486
GES	Rate	150.0	186.7	342,8	285.9	232.8	203.1	192.7	131.7	82.6	115,7	293.0	Z02.1	85.0	0.00	107 F	149.9	148.2	127.0	179.0	94.6	152.2	182.0	86.8	98.7	131.4	268.8	195.9	169.9	111.6	111.4	159.0	146.8	140.5	262.5
DISCHARGES	Number	90,260	1,375	651	1,848	9,650	2,013	349	926	612	1,378	419	8,302	878	500	1000	1.343	456	1 182	4.795	2,442	1,885	1,285	1,171	480	768	118	290	3,734	129	10,842	1,740	320	4,135	1,301
SFERS)	Rate ²	97.0	66.2	116.3	90.9	127.0 66.8	151.9	152.9	183.1	44.1	78.3	110.5	L44.5	48.1	0.00	0.10	0.00	84.1	76.37	154.3	67.4	102,2	126.6	51.6	80.3	103.7	100.6	187.0	131.8	51.1	138.6	68.2	89.4	83.8	131.4
ALL ADMISSIONS (EXCEPT TRANSFERS)	Number	146,506.	1,982	916	1,721	13,522	3,078	497	1,412	1,270	2,660	059	12,619	1,922	12,120	#7/ L	1,902	744	LOB L	7,208	4,395	3,055	2,739	2,066	469	1,392	167	993	6,458	349	20,735	2,752	240	6,746	2,047
LONS	Rate	72.0	46.2	95.6	64.9	96.6	102.7	112.9	141.1	35.0	29.9	9.87	2.08	40.4	0.00	1.07	54.4	60.5	7.0	114.0	53.3	79.2	105.6	40.6	72.4	83.8	86.7	141.4	1.96	49.2	102.3	57.8	72.2	59.5	9.66
FIRST	Number	108,778	1,383	731	1,229	10,287	2,080	367	1,088	1,008	2,037	462	8,325	1,614	1,200	1 407	1.479	535	1.240	5.323	3,480	2,367	2,285	1,626	423	1,124	144	751	4,710	336	15,315	2,332	436	4,785	1,545
SURATE		UNITED STATES	Alabama	Arizona	Arkansas	California	Connecticut	Delaware	District of Columbia	Florida	Georgia	Table	TTINOIBE	Indiana	T D T D T D T D T D T D T D T D T D T D	Kontucka	Louisiana	Maine	Mervland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri	Montana	Nebraska	Nevada	New Hampshire	New Jersey'	New Mexico	New York	North Carolina	North Dakota	Oh1	Oregon

777.59 636.54 541.20 833.27 376.95	699.59 702.66 560.46 723.99 535.10 710.80
% 4 0 0 0 0 0 0 0 0 0 0 1	1 8 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8
37,059 3,250 5,320 1,695 7,597 16,211	1,270 1,278 9,872 7,227 4,746 14,165
43,233 4,141 6,481 1,677 7,740 21,661	1,476 1,299 11,899 8,261 6,033 15,440
58.7 74.3 53.8 75.2 56.0 61.2	65.0 66.4 66.4 84.5 53.4 81.6
2,582 346 393 160 544 1,235	111 116 852 799 362 1,151
85.2 226.2 243.6 219.6 191.8 93.9	206.1 320.6 187.8 181.9 213.8 167.7 168.3
3,644 917 1,577 372 1,465 1,974	302 418 2,260 1,511 1,246 2,575 118
67.4 189.2 97.0 77.7 67.3 55.9	62.0 141.1 91.9 96.6 104.6 128.9 70.2
7,089 1,451 1,983 2,220 4,334	436 525 2,923 2,065 4,451
52.7 133.9 75.4 57.4 47.5	43.4 98.7 56.4 78.4 72.1 97.9
5,545 1,027 1,541 368 1,566 3,335	305 367 1,796 1,438 3,379 1,438
Pennylvania Rhode faland South Carolina South Dakota Tennesiee'' Texas	Utah Vermont. Virginia Washington West Virginia Wiscomsin. Wonding.

^hymber of first admissions par 100,000 of the setimated civilian population as of July 1. Thunber of admissions per 100,000 of the estimated civilian population as of July 1.

*Number of deaths per 1,000 patients under treatment during the year. Patients under treatment was obtained by adding all admissions (excluding transfers) to Minmber of discharges per 1,000 average patients on the hospital books during the year. This average was obtained by computing the average of the number of patients on books at the baginning and end of the year.

Sumber of everage daily resident patients per 1,000 of the estimated civilian population as of July 1. Spassed on everage daily resident-patient population of hospitals reporting expenditures. the number of rasident patisnts at the beginning of the year.

Included in the statistics presented are the following data for the respective county systems in the United States and sach States:

_1	ഖ	21216
Per capita maintenance expanditures	\$730,79	1,281.06 959.75 568.11
Average daily Fresident patient me	20,148	1,069 6,198 832 12,049
Patients on books at end of year	23,962	1,087 2,226 7,282 897 12,470
Deaths in hospital	2,302	452 784 88 978
Discharges	2,482	273 1,022 237 950
All admissions (except transfers)	4,893	667 1,882 354 1,990
First	3,940	596 1,493 282 1,569
STATE	TOTAL	California Towa Twaresy Wiscossin

Data for the Iowa County hospitals were not available

SYMBOLS USED:

Data not available-three dashes [---] .

from 199 of the State hospitals and 41 of the county hospitals. However, the hospitals represented 99.7 percent and 86.0 percent of the total average daily resident patient expected for the State and county hospitals, respectively.

Estation spontation as of July 1, 1951, from Current Population Reptants, Population Stationes Series P-25, Number 62, U. S. Department of Commerce, Data based on reports from 201 State and 111 county hospitals for mental disease for the 1951 Census of Mental Patients. Data on expanditures wers svailable

Bursau of the Census, Washington, D. C.

Over 610,000 persons were in the hospital or in some form of extramural care at the end of 1951 as compared to about 598,000 in 1950. This represents

an increase of about two percent.

The average number of patients in daily residence during the year was 515,108, an increase of 1.9 percent over the corresponding number of 505,419 in 1950. Of these patients, 96.1 percent were in State hospitals, and only 3.9 percent in county hospitals. However, in States with county mental hospital systems, the patients resident in the county mental hospitals represent a significant portion of the mentally ill hospitalized in public hospitals. In terms of the rate per 1,000 estimated civilian population, 3.4 persons were hospitalized, on the average, for each 1,000 estimated persons in the civilian population on any given day; this rate varied among the 48 States and the District of Columbia from a low of 1.6 to a high of 8.8. The median rate was 3.1. Figure 1 shows the distribution of these rates by State. It is evident that the Southern and Western States have low ratios as compared to the Northern

(Continued from page 1)

patients, including transfers, to the Veterans Administration hospitals totaled 43,540; total discharges were 41,958; deaths in hospital were 2,421; and total patients on books at end of year were 56,977.

and Eastern ones.

The average rate of first admissions to public mental hospitals was 72.0 per 100,000 estimated civilian population, a decrease of 1.1 percent as compared to the 1950 rate. The median rate in 1951 was 64.9, with a range from a low of 28.1 to a high of 141.4. In 1950 the median rate was 64.2, with a range of 27.0 to 163.7.

The rate of discharge per 1,000 average patients on hospital books for the United States was 150.0, a one percent increase over the 1950 rate. However, the median rate was 167.7, with a range from 81.6 to 342.8, as compared to the 1950 median rate of

160.1, with a range from 29.0 to 427.1.

The average death rate also showed a slight increase, 64.1 per 1,000 patients under treatment during the year, as compared to 63.8 in 1950. The range was somewhat broader than it was in 1950; the median death rate in 1951 was 62.3, with a range from 37.6 to 92.6, as compared to the 1950 median of 61.0, with a range from 42.9 to 86.9.

Per capita maintenance expenditure for the United States was \$825.62 per year, or \$2.26 per patient per

day, as compared to \$2.12 in 1950.

The median expenditure was \$777.59, with a range of \$376.95 to \$1,591.86. On a daily per capita basis the median would be \$2.14, with a range of \$1.03 to \$4.36 per day.

MENTAL HEALTH STATISTICS

Current Reports

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

v 1954

BETHESDA 14, MARYLAND

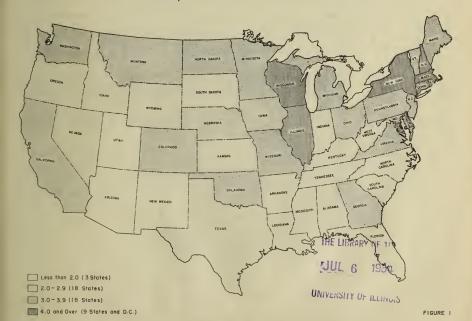
SERIES IMH-B54, NO. 1

TIME ASSESSED

PATIENTS IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL, 1952

This is the third in a series of reports presenting summarized information¹ on the State and county hospitals for the prolonged care of the mentally ill in the United States.² Prior reports, Series IMH-B53 Nos. 1 and 2, dealt with data for the years 1950 and 1951, respectively.

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 1.000 CIVILIAN POPULATION: 1952



¹Data are based on preliminary tabulations made for the hospitals reporting in the 1952 Census of Patients in Mental Institutions. Final editing and tabulation of these data may subject them to revision when pre-

pared for final publication.

 $^{^2\}mathrm{This}$ report does not include data for neuropsychiatric patients in Veterans Administration hospitals.

SUMMARY DATA AND RATES FOR PATIENTS AND PER CAPITA MAINTEN ANCE EXPENDITURES IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL UNITED STATES, AND EACH STATE, 1952

STATS	FIRST ADMISSIONS	IONS	ALL ADMISSIONS (EXCEPT TRANSFERS	SSIONS ANSFERS)	DISCHARGES	ARGES	DEATHS IN HOSPITAL	SIN	Patients on books at	AVERAGE DAILY RESIDENT PATIENT POPULATION	DAILY PATIENT TION	Per capita maintenance
	Number	Rate1	Number	Rate 2	Number	Rate 3	Number	Rate4		Number	Rate5	
UNITED STATES"	113,995	74.3	157, 185	102.5	98,958	160.8	44,223	65.3	822,708	526,342	3.4	\$937.08
Alabama	1,343	44.1	1,973	84.8	1,308	173.6	457	53.0	7,638	8,775	3 5	655.63
ATIZODA	1.494	0 2 6	634	115.4	1 758	438.2	104	80.1	1,810 6,179	1,590	D * C	797.19
California7	11,559	104.2	15, 193	136.9	10.418		2.972	61.3	43.847	33,883	3.1	1.026.59
Colorado	445	32.1	628	45.3	459	78.4	493	84.2	6,032	5,239	3.8	984.04
Connecticut	2,097	8.88	3, 183	151.6	2, 149	213.7	926	78.8	10,107	8,819	4.	1, 163.64
Delaware	403	117.8	539	157.8	356	189.9	113	59.5	1,910	1,390	4.1	1,035.78
District of Columbia	1,084	137.4	1,436	182.3	814	113.4	431	52.3	7,271	6,915	8.8	1,740.77
Florida	1,187	38.7	1,437	47.8	639	82.8	411	49.7	606.4	7,132	2.4	812.54
Georgia	2, 134	62.3	2,762	80.8	1,599	129.4	772	29.5	12,558	10,475	3.1	597.58
2	545	93.9	14,187	136.3	10,021	244.5	3,867	75.8	1,480	1,142	4 0 %	932.55
Indiana	2,050	49.8	2.435	59.1	1,270	119.5	769	63.8	10,812	9,778	4.9	8751.78
TOWN THE THE PROPERTY OF THE P	1,671	04.1	2,273	67.3	1,753	184.2	97.4	4.00	9,448	188.7	n u	1 1 1 1 2 0 1
Kentuckv	1.414	49.3	1 0 30	A7.5	1 203	157.5	2000	84.8	A 200 A	7. 204	ຸ້	540.69
Louisiana	1,498	55.2	1,903	70.3	1,520	168.9	438	47.3	8,968	7,350	2.7	501.35
Maine	543	61.5	755	85.5	458	145.1	213	59.5	3,200	2,836	3.2	821.17
Maryland7	1.827	88.8	2.334	10	1.418	144.7	487	46.8	10.012	8.218	4.6	987.72
Massachusetts	5,204	110.8	7,227	153.9	4,847	180.4	2,377	77.5	28,888	23,619	5.0	1,251.33
Michigan	3,563	53.4	4,805	69.1	2,483	94.8	1,512	81.8	26,522	20,350	3.1	1, 155, 17
Minnesota	3, 155	104.8	4,033	133.9	2,518	196. 5	1,147	77.1	13,089	11, 184	3.7	1,023.82
Missouri	1,638	41.6	2, 118	53.7	1,218	89.7	878	60.7	13, 588	12,276	3.5	670.14
Montana-	542	91.6	800	101.4	1,018	273.4	197	77.2	3, 324	1,944	9.3	866.59
Nebraska	787	58.8	1,317	98.0	1,048	178.6	345	57.9	5,830	4,568	3.4	1,089.77
Nevada	155	87.1	180	101,1	119	254.3	99	52.1	484	392	2.2	845.80
New Hampshire	788	145.5	1,020	193.2	282	185.8	262	72.9	3, 224	2,616	5.0	1,187.07
New Jersey	5,048	100.4	6,881	136.9	4,038	179.2	2,143	81.4	22,773	19,488	o .	995.21
New Mexico	282	41.6	308	43.0	80	54.8	693	22.59	1,611	1, 109	0	1,022.10
New York	14,895	99.1	20,457	136.1	10,933	110.3	7,558	69.8	99,862	88,476	5.9	1,124.35
North Carolina	2,805	83.8	3,018	73.9	2,045	179.7	566	45.8	11,572	9,478	8.3	862.38
North Dakota	883	63.6	499	82.8	353	147.8	136	52.7	2,394	2,091	n	961.39
OK1 ahoma	1,530	69.8	2,277	104.1	1.324		1,917	66.2	9, 163	7.892	3.0	855.35
Ore gon	1,788	110.5	2, 447	153.1	1,429	252.7	588	82.8	5,831	4,504	8.8	846.24

880.17	719.52	593.64	-	429.53	693, 32	857.55	893.67	614.91	775.09	563.93	954.21	836.13
3.6	4.3	2.5	2.8	2.4	2.1	1.8	3. 4	3.0	3.1	2.8	4.2	2.1
37,568	3, 346	5, 369	1,695	7,691	16,644	1,304	1,268	9,967	7,293	5,171	14,637	630
44,345	4,219	6,668	1,748	7,698	22,953	1,504	1,323	11,976	8,339	6,845	15,827	969
58.7	74.4	51.5	50.9	81.8	52.4	48.3	83.4	71.8	82.0	54.1	63.3	110.2
2,529	350	378	118	601	1,094	82	144	943	783	403	1,204	94
85.2	234.9		238.0	200.9	111.3		235.7	184.1	178.6	211.4	181.4	200.0
3,729	983	1,397	408	1,535	2,487	318	309	2, 198	1,482	1,398	2,858	140
69.7	180.3	92.4	91.8	69.8	58.8	58.4	129.3	98.8	97.9	117.9	132.2	77.8
7,328	1,410	1,960	297	2,262	4,658	428	477	3,288	2, 335	2,321	4,618	228
54.9	118.8	63.9	87.4	49.4	44.0	43.7	88.1	59.6	75.3	75.5	97.2	54.8
5,774	929	1,483	438	1,599	3,501	320	325	1,969	1,796	1,488	3,394	161
Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee"	Texas	Utah	Vermon t	Virginia	Washington	West Virginia	Wisconsin'	Wyoming

¹Number of first admissions per 100,000 of the estimated civilian population as of July 1.

2Number of admissions per 100,000 of the estimated civilian population as of July 1.

Sumber of discharges per 1,000 average patients on the hospital books during the year. This average was obtained by computing the average number of patients on books at the beginning and end of the year. *Number of deaths per 1,000 patients under treatment during the year. Patients under treatment was obtained by adding all admissions (excluding transfers) to the number of resident patients at the beginning of the year.

⁶Number of average daily resident patients per 1,000 of the estimated civilian population as of July 1.

Based on average daily resident-patient population of hospitals reporting expenditures.

3

Tincluded in the statistics presented are the following data for the respective county systems in the United States and each State

STATE	First	All admissions (except transfers)	Discharges	Deaths in hospital	Patients on books at end of year	Average daily resident patient population	Per capita maintenance expenditures
TOTAL	3,679	4,708	2,272	2, 392	24,688	22,946	\$910.78
California Tova Tova New Jersey	342 59 1,489	3875	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	319 108 3 825 125	1,077 2,245 101 7,398 942	1,075 2,192 8,277 6,277	1,445.84 937.26 1,051.46

⁶Data for the Iowa County hospitals were not available.

YMBOLS USED:

Data not available--three dashes [---] .

SOURCES:

percent of the total average of the number daily resident patient population reported for the State and county hospitals, respectively. Estimated civilian population are so fully 1, 1982, from Current Population Reports, Population Estimates Series P-25, Number 87, U. S. Department of Commerce, Bureau of the Census, Mashington, D. C. avallable from 196 of the State hospitals and 46 of the county hospitals. However, the hospitals reporting expenditures represented 97.4 percent and 89.3 Data based on reports from 204 State and 113 county hospitals for mental disease for the 1952 Census of Mental Patients. Data for expenditures were

Over 622,000 persons were in the hospital or in some form of extramural care at the end of 1952 as compared to about 610,000 in 1951. This represents an

increase of about two percent.

The average number of patients in daily residence during the year was 526,342, an increase of 1.9 percent over the corresponding number of 515,108 in 1951. Of these patients, 95.6 percent were in State hospitals and only 4.4 percent in county hospitals. However, in States with county mental hospital systems the patients resident in the county mental hospitals represent a significant portion of the mentally ill hospitalized in public hospitals. In terms of the rate per 1,000 estimated civilian population, 3.4 persons were hospitalized, on the average, for each 1,000 estimated persons in the civilian population on any given day; this rate varied among the 48 States and the District of Columbia from a low of 1.6 to a high of 8.8. The median rate was 3.1. Figure 1 shows the distribution of these rates by State. The Southern and Western States have low ratios as compared to the Northern and Eastern ones.

The average rate of first admissions to public mental hospitals was 74.3 per 100,000 estimated civilian population, an increase of 3.2 percent as compared to the 1951 rate. The median rate in 1952 was 67.4

with a range from a low of 32.1 to a high of 145.5. In 1951 the median rate was 64.9 with a range of 28.1 to 141.4.

The rate of discharge per 1,000 average patients on hospital books for the United States was 160.6, a 7.1 percent increase over the 1951 rate. The median rate in 1952 was 180.4 per 1,000 as compared to 167.7 in 1951. The range was somewhat broader in 1952 with a low of 54.9 and a high of 438.2 as compared to 81.6 and 342.8 in 1951.

The average death rate showed a slight increase, 65.3 per 1,000 patients under treatment during the year, as compared to 64.1 in 1951. The median death rate in 1952 was 61.6 with a range of 45.6 to 110.2. In 1951 the median rate was 62.3 with a range of 37.6 to 92.6.

Per capita maintenance expenditure for the United States was \$937.08 per year or \$2.57 per patient per

day as compared to \$2.26 in 1951.

The median expenditure (excluding South Dakota for which no data were available) was \$851.90 with a range of \$429.53 to \$1,740.77. On a daily per capita basis the median is \$2.33 with a range of \$1.18 to \$4.77 as compared to a median of \$2.14 and a range of \$1.03 to \$4.36 in 1951.

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MENTAL HEALTH STATISTICS

Current Reports

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service, National Institute of Mental Health

December, 1954

Bethesda 14, Md.

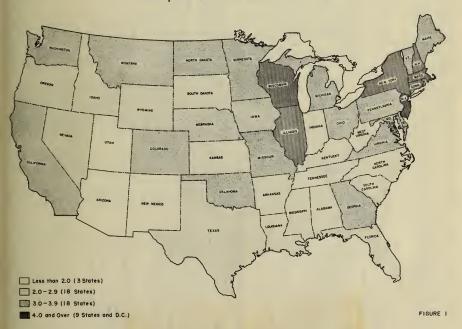
Series IMH-B54, No. 2

PATIENTS IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL, 1953

This is the fourth in a series of reports presenting summarized information on the State and county hospitals for the prolonged care of the mentally ill in the United States.

Prior reports, Series IMH-B53, Nos. 1 and 2 and Series IMH-B54, No. 1, dealt with data for the years 1950, 1951 and 1952 respectively.

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 1,000 CIVILIAN POPULATION: 1953



¹Data are based on preliminary tabulations made for the hospitals reporting in the 1953 Census of Patients in Mental Institutions. Final editing and tabulation of these data may subject them to revision

SURMARY DATA AND RATES FOR PATIENTS AND PER CAPITA MAINTENANCE EXPENDITURES IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL:
UNITED STATES AND EACH STATE, 1953

PER CAPITA MAINTENANCE	CONTRACTOR OF THE COURT	\$984.66		563.86	936.20	1,086.93	94.666	1,366.24	1,129.79	1,810.61	801.04	704.92	998.53	7770 38	843.46	1,411.67	573.54	496.70		1,088.56	1,616.7	1,036.41	654.99	(0.61)	879.06	847,15	1,163.37	1,144.91	21.000 (1	1,158.57	658,35	848.08	639.42	50,700	765.51	693.10
DAILY PATIENT TION	Rate ⁵	3.5	I	2.7	2,5	3.0	3.9	4.2	3.9	8.8	2.2	7°T	4.2	0.7	0.6	2.4	2.6	2.6	1	3.5	4 6	3.8	7.0	2.0	3.1	2.0	5.1	7.5	1	0.0	3.4	3.2	9.0	,	4.4	2.6
AVERAGE DAILY RESIDENT-PATIENT POPULATION	Number	538,337		1,638	4,796	35,001	5,335	8,945	1,377	7,079	7,280	10,858	37,834	שצר טר	7,873	4,705	7,384	7,470	500,63	8,526	20,712	11,568	5,136	12,17	1,918	406	2,660	21,305	- 1 - 10 - 10 - 1	90,562	2,085	26,500	8,026	200	3,398	5,545
PATIENTS ON BOOKS AT		632,042	-	7,849	6,331	45,693	6,114	10,282	1,983	7,382	8,259	13,23/	41,684	טטר רר	9,261	5,396	8,364	9,153	7776	10,405	26, 556	13,229	8,206	15,431	2,228	518	3,267	24,811	t10.61	102,424	2,402	31,552	9,109		46,048	6,807
S IN	Rate4	64.5		47.8	57.9	59.9	75.2	71.1					74.1	60 3	72.1	54.6	62.7	46.3		55.2	7.L.I	78.0	4.9		59.8	77.2	72.5	82.6	76.6	72.2	2.5	61.7	59.2		74.5	53.1
DEATHS IN HOSPITAL	Number	44,800		136	408	3,069	677	868	91	436	408	852	3,770	277	733	330	599	235	C 2	617	2,125	1,220	362	800	175	57	258	2,344	-	8,021	134	2,013	601		2,739	408
GES	Rate ³	166.8		188.0	288.7	263.2	92.2	237.9	163.3	133.3	84.4	146.2	217.6	0 611	186.2	180.1	190.5	167.9	TO5.0	169.4	193.1	221.8	228.3	4.0%	540.7	225.5	187.0	165.6	T46.0	106.3	149.8	141.5	175.2		68.5	242.2
DISCHARGES	Number	104,333		1,456	1.806	11,754	260	2,425	318	21.6	682	1,886	9,005	מטט נ	1,750	226	1,580	1,517	Cac	1,723	7,969	2,909	1,799	٤0٤,⊥	1,501	173	209	4,067	677	10,751	359	4,418	1,599	2) (1	3,096	1,632
SSIONS ANSFERS)	Rate ²	104.8		68.2	125.3	145.1	51.7	160.6	136.2	190.5	44.3	97.5	150.2	n n	85.1	64.2	80.9	77.5	0	114.2	150.0	144.6	134.5	49.3	175.7	96.5	173.6	138.6	4.64	143.4	9.18	77.9	97.8	2	70.4	102.2
ALL ADMISSIONS (EXCEPT TRANSFERS)	Number	163,482		2,096	2.366	17,077	713	3,457	482	1,524	1,442	3,419	13,449	נטני ני	2,231	1,259	2,336	2,200	#//	2,813	1,263	4,410	2,902	1,998	1,070	192	806	7,021	TOC	21,754	506	6,506	2,170	6,40	7,476	2,179
SNOISSI	Ratel	75.9		47.7	88.4	105.1	36.9	105.2	101.4	141.9	34.5	73.4	104.8	000	62.0	43.2	52.6	57.3	9	78.2	111.2	105.6	6,68	28.2	99.5	47.78	127.9	100.5	40.7	104.9	67.7	56.4	66.4	1.0711	56.1	77.8
FIRST ADMISSIONS	Number	118,400		1,466	1.669	12,374	509	2,264	359	1,135	1,122	2,575	9,378	017	1,614	848	1,519	1,628	760	1,926	3 130	3,221	1,940	L,549	909	174	699	5,089	3	15,914	107	4,712	1,472	17161	5,957	1,658
STATE		United States		AlabamaArizona	Arkansas	California7	Colorado	Connecticut	Delaware	District of Columbia	Florida	Georgia	Illinois	T. S.	Iowa7	Kansas	Kentucky	Louisiana		Maryland7	Massachusetts	Minnesota	Mississippi	Missouri	Montana	Neveda	New Hampshire	New Jersey7	New Texted	New York	North Dakota	Ohio	Oklahoma	10000	Pennsylvania	South Carolina-

681.49 407.61 705.37	935.47 913.50 715.02 801.25 602.81 1,022.15
2.5	1.8 3.1 3.1 2.7 2.2
1,751 8,183 16,204	1,327 1,281 10,280 7,353 5,272 14,770 651
1,806 8,043 20,151	1,505 1,335 12,353 8,647 6,687 16,045
43.1	50.8 70.7 64.3 76.5 51.0 68.9 68.1
98 688	87 126 874 756 392 1,316
211.9 211.9 165.2	209.3 260.5 179.6 165.3 279.7 175.4 269.5
371 1,674 3,284	315 346 2,185 1,397 1,834 2,802 190
89.1 80.3 62.0	55.1 137.9 103.9 110.5 128.4 127.2 93.2
2,657	403 517 3,476 2,652 2,488 4,471
81.1 58.6 47.0	42.4 95.2 64.4 86.1 84.5 93.6 61.4
527 1,939 3,802	310 357 2,154 2,068 1,636 3,289 3,289
South Dakota———————————————————————————————————	Utah. Vermont Virginia Washington West Virginia Wisconsin' Wyoming

1 Number of first admissions per 100,000 of the estimated civilian population as of July 1, 1953.

Member of admissions per 100,000 of the estimated civilian population as of July 1, 1953.

Member of discharges per 1,000 average patients on the hospital books during the year. This average was obtained by computing the average number of

Patients on books at the beginning and end of year.

* Number of deaths per 1,000 patients under treatment during the year. Patients under treatment was obtained by adding all admissions (excluding ransfers) to the number of resident patients at the beginning of the year. transfers)

Number of average daily resident patients per 1,000 of the estimated civilian population as of July 1, 1953.

7 Included in the statistics presented are the following data for the respective county systems in the United States and each State: 6 Based on average daily resident-patient population of hospitals reporting expenditures.

3

State	First admissions	All admissions (except transfers)	Discharges	Deaths in hospital	Patients on books at end of year	Average daily resident-patient population	Per capita maintenance expenditures ⁶
	3,637	4,516	2,327	2,521	24,571	23,448	\$858.26
	197	236	139	185	969	1,045	1,594.56
	1	1	28	182	2,289	2,267	1
	58	62	EI	17	92	87	60.076
	1,550	1,962	026	867	7,487	6,386	1,114.93
	343	425	257	146	02.6	1,150	448.86
	1,489	1,831	920	1,124	760,51	12,513	868.41

SYMBOLS USED:

Data not available - three dashes (- - -) Quantity is zero - one dash (-)

were available from 201 of the State hospitals and 47 of the county hospitals. However, the hospitals reporting expenditures represented 99.8 percent and 89.1 percent of the total average daily resident-patient population reported for the State and county hospitals, respectively. Estimated civilian popu-Data based on reports from the 205 State and the 113 county hospitals for mental disease for the 1953 Census of Mental Patients. Data on expenditures lation as of July 1, 1953, from Current Population Reports, Population Estimates Series P-25, Number 97, U. S. Department of Commerce, Bureau of the Census, Washington, D. C. Over 632,000 persons were resident in the 318 hospitals or in some form of extramural care at the end of 1953 as compared to about 622,000 in 1952, an increase of about 1.5 percent.

The average number of patients in daily residence during the year was 538,337, an increase of 2.3 percent over the corresponding number of 526,342 in 1952. Of these patients, 95.6 percent were in State hospitals and only 4.4 percent in county hospitals. However, in the six States with county mental hospital systems the patients resident in the county mental hospitals represent a significant portion of the mentally ill hospitalized in public hospitals. There were 3.5 persons hospitalized, on the average, for each 1,000 estimated persons in the civilian population on any given day; this rate varied among the 48 States and the District of Columbia from a low of 1.5 to a high of 8.8. The median rate was 3.0. Figure shows the distribution of these rates by State. The Southern and Western States have low rates as compared to the Northern and Eastern ones.

The average rate of first admissions to public mental hospitals was 75.9 per 100,000 estimated civilian population, an increase of 2.2 percent over the 1952 rate. The median rate in 1953 was 77.1, with a range from a low of 34.5 to a high of 141.9. In 1952 the median rate was 67.4 with a range of 32.1 to 145.5.

The rate of discharge per 1,000 average patients on hospital books for the United States was 166.8, a 3.9 percent increase over the 1952 rate. The median rate in 1953 was 186.2 per 1,000 as compared with 180.4 in 1952. The range was somewhat broader in 1953 with a low of 68.5 and a high of 540.7, as compared with 54.9 and 438.2 in 1952.

The average death rate, 64.5 per 1,000 patients under treatment, showed a slight decrease compared to the 1952 rate of 65.3. The median death rate in 1953 was 60.4 with a range of 37.5 to 82.6. In 1952 the median rate was 61.6 with a range of 45.6 to 110.2.

Per capita maintenance expenditure for the United States was \$984.66 per year or \$2.70 per patient per day as compared to \$2.57 in 1952. The median expenditure was \$894.21 with a range of \$407.61 to \$1810.61. On a daily per capita basis the median was \$2.45 with a range of \$1.12 to \$4.96 as compared to a median of \$2.33 and a range of \$1.18 to \$4.77 in 1952.

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

January 1956

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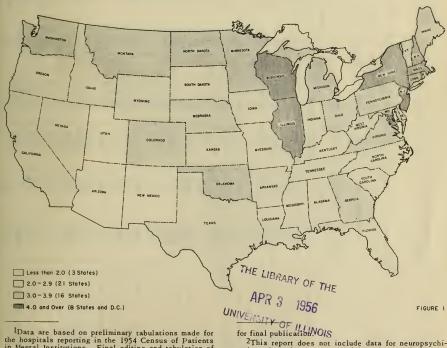
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PATIENTS IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL. 1954

This is the fifth in a series of reports presenting summarized information on the State and county hospitals for the prolonged care of the mentally ill in the United States². Prior reports,

Series IMH-B53, Nos. 1 and 2, and Series IMH-B54, Nos. 1 and 2, dealt with data for the years 1950, 1951, 1952 and 1953, respectively.

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 1,000 CIVILIAN POPULATION: 1954



lData are based on preliminary tabulations made for the hospitals reporting in the 1954 Census of Patients in Mental Institutions. Final editing and tabulation of these data may subject them to revision when prepared

²This report does not include data for neuropsychiatric patients in Veterans Administration hospitals.

SUMMARY DATA AND RATES FOR PATIENTS AND PER CAPITA MAINTENANCE EXPENDITURES IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL: UNITED STATES AND EACH STATE, 1954

Discharges in Books at End Population	Rate 2 Number Rate 3 Expenditures 4		105.1 111,698 42,560 642,419 547,393 3.4 \$1,036.21	1,487 453 7,996 7,076 2.3	1 774 330 6,024 4,008 7,6	13.54 13,595 2,685 45,645 35,635 2.9 1,143.77	573 515 6,228 5,489 3.9	2,684 817 10,405 9,063 4.1	(54.7) 521 113 2,036 1,409 3.9 1,229.31 48.7 921 416 7,430 7,117 8.7 1,845.32	770 393 8,646 7,567 2.2	2,192 900 13,784 11,267 3.2	843 119 1,604 1,252	9,325 3,441 42,053' 38,237 4.2	1,294 699 11,562 10,469 2.5	91.8 1,828 702 8,973 7,728 2.9 901.92	7,000 4,001	8,547 7,515 2.6	1,554 459 10,129 8,145 2.8	1 893 (600 11 060 8 999 3 6	5,196 2,251 26,785 23,417	2.366 1.378 26.877 20.930 3.0	2,911 1,101 13,414 11,362 3.7	134.6 2,258 279 7,100 5,215 2.4 658.19	1,255 670 13,391 12,115 2.9	584 198 2,299 1,942 3.1	1,076 303 5,708 4,651 3.4	108.6 120 32 537 413 2.0 973.96	628 278 3,256 2,663 5.0	0 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /
All Admissions (Except Transfers)	Number		167,185			16,536	_		1.219						2,421		2,451	_				_	2,934	_			227		
First Admissicns	Rate1	\perp	74.6	(99.9			118.9						65.4		54.0						91.6				96.7	_	
Ac	Number		118,609	1,461	1 57	12,197	455	2,320		-	2,951	889	8,589	1,71	1,724 9/68		1,581	7,0,7	7 291	5,231	2.864	2,645	966,1	1,350	618	642	207		7LO 7
STATE			United States	Alabama	Arkansas	California 5	Colorado	Connecticut	District of Columbia	Florida	Georgia	I dahoI	Illinois	Indiana	Kansas	Control of the Contro	Kentucky	Moiss	Mary land 5	Massachusetts	Michigan	Minne sota	Mississippi	Missouri	Montana	Nebraska	Nevada	New Hampshire	The state of the s

1,184.42 1,003.07 854.46 956.12 759.55	1,045.15 980.32 798.23 749.49 897.30	473.03 799.71 1,031.54 1,038.93 780.65	901.17 688.33 1,092.55 881.02
6.1 3.3 3.3 3.5	2.8 3.6 4.4 2.7 2.6	2.4 2.0 1.8 3.3 3.1	3.0 2.8 4.2 2.1
93,304 10,110 2,087 27,767 7,834	4,625 39,142 3,459 5,785 1,696	8,140 16,328 1,342 1,273 10,721	7,483 5,377 14,834 648
104,854 11,864 2,447 33,349 8,717	6,198 47,902 4,095 7,090 1,640	8,373 20,256 1,562 1,385 12,824	8,643 6,503 16,111 731
7,956 468 136 1,964 491	2,587 386 385 152	557 1,002 106 105 786	742 350 1,249 78
10,839 2,475 551 7,131 1,662	1,706 3,103 1,032 1,548 643	1,962 4,014 258 359 2,254	1,688 1,999 2,786 171
143.3 75.8 115.9 114.0 81.1	154.8 70.1 179.2 102.1 95.3	84.5 63.0 55.9 135.0 103.8	85.9 111.8 116.1 92.1
22,030 3,156 736 9,726 1,811	2,530 7,534 1,416 2,216 628	2,826 5,194 421 517 3,548	2,112 2,176 4,149 278
104.5 61.4 85.4 80.4 51.4	110.5 52.1 107.6 75.6 65.3	59.5 44.8 40.9 91.4 63.6	79.1 79.2 85.4 60.6
16,062 2,557 542 6,861 1,147	1,806 5,607 850 1,642 430	1,991 3,695 308 350 2,174	1,945 1,542 3,051 183
New York	Oregon	Tennessee ⁵	Washington

Number of first admissions per 100,000 of the estimated civilian population as of July 1, 1954.

Number of admissions per 100,000 of the estimated civilian population as of July 1, 1954.

³Number of average daily resident patients per 1,000 of the estimated civilian population as of July 1, 1954.

Based on average daily resident-patient population of hospitals reporting expenditures.

Includes the county hospital system within the State.

expenditures were available from 261 of the 342 State and county hospitals. However, the hospitals reporting expenditures represented 99.6 SOURCES: Data based on reports from 341 of the 342 State and county hospitals for mental disease for the 1954 Census of Mental Patients. Data on percent of the total average daily resident-patient population. Estimated civilian population as of July 1, 1954, from Current Population Reports, Population Estimates Series P-25, No. 108, U. S. Department of Commerce, Bureau of Census, Washington, D. C. Over 642,000 persons were either resident in the 341 hospitals or were in some form of extramural care at the end of 1954 as compared to about 632,000 in 1953, an increase of about 1.6

ercent.

The average number of patients in daily residence during the year was 547,393, an increase of 1.7 percent over the corresponding number of 538,337 in 1953. Of these patients, 95.8 percent were in State hospitals and only 4.2 percent in county hospitals. However, in the six States with county mental hospital systems, the patients resident in the county mental hospitals represent a significant portion of the mentally ill hospitalized in public hospitals. There were 3.4 persons hospitalized, on the average, for each 1,000 estimated persons in the civilian population on any given day; this rate varied among the 48 States and the District of Columbia from a low of 1.5 to a

high of 8.7. The median rate was 3.0. Figure 1 shows the distribution of these rates by State. The Southern and Western States have low rates as compared to the Northern and Eastern ones.

The average rate of first admission to public mental hospitals was 74.6 per 100,000 estimated civilian population, a decrease of 1.7 percent below the 1953 rate. The median rate in 1954 was 79.1, with a range from a low of 32.6 to a high of 126.7. In 1953 the median rate was 77.1, with a

range of 34.5 to 141.9.

Per capita maintenance expenditure for the United States was \$1,036.21 per year or \$2.84 per patient per day as compared to \$2.70 in 1953. The median expenditure was \$980.32 with a range of \$473.03 to \$1,845.32. On a daily per capita basis the median was \$2.69 with a range of \$1.30 to \$5.06, as compared to a median of \$2.45 and a range of \$1.12 to \$4.96 in 1953.

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Current Reports

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

December 1956

Bethesda 14, Md.

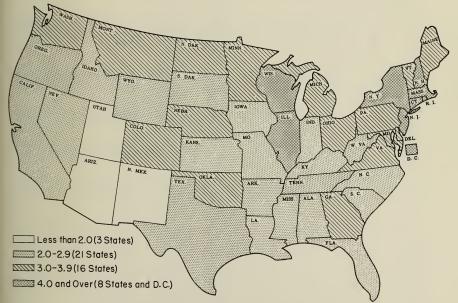
Series MHB-H-2

PATIENTS IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL, 1955

This is the sixth¹ in a series of reports presenting summarized information² on the State and county hospitals for the pro-

longed care of the mentally ill in the United States. 3

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 1,000 CIVILIAN POPULATION:1955



¹ Prior reports, Series IMH-B53, Nos, 1 and 2, Series IMH-B54, Nos, 1 and 2, and Series MHB-H-1, dealt with data for the years 1950, 1951, 1952, 1953 and 1954, respectively.

editing and tabulation of these data may subject them to revision when

prepared for final publication,

This report does not include data for neuropsychiatric patients in Veterans Administration hospitals.

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² Data are based on preliminary tabulations made for the hospitals reporting in the 1955 Census of Patients in Mental Institutions, Final

SUPPARY DATA AND RATES FOR PATIENTS AND PER PATIENT MAINTENANCE EXPENDITURES IN PUBLIC HOSPITALS FOR THE PROLONGED CARE OF THE MENTALLY ILL: UNITED STATES AND EACH STATE, 1955

6 t	a	62	52 57 57 57 57	814 6 5 4 4 6 5 4 4	25 41 25 52 52	250 54	91 24 91 57	05 80 71 41	76 53 34 34
Per Patient Maintenance	mainiadva	\$1,107.79	717.55 1,228.90 902.57 1,226.16 1,184.42	1,629.18 1,293.54 1,889.49 859.27 733.44	1,197.25 992.41 1,125.25 1,121.06 1,718.62	653.78 669.64 1,067.50 1,171.59 1,315.91	1,476.91 1,093.24 705.91 854.03	1,120.05 1,106.80 1,329.71 1,265.93 1,314.41	1,243.76 1,046.53 960.01 1,038.84 830.94
Daily Patient	Rate3	3,4	1.2.2.8 8.2.9.8 7.9.9	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	017000	0.00.00.4	0 0 2 0 1	2.0 4.0 1.1	9,9,9,6
Average Daily Resident Patient Population	Number	554,592	7,136 1,701 5,017 36,428 5,649	8,958 1,400 7,216 7,892 11,582	1,236 38,494 10,803 5,330 4,462	7,689 8,184 2,983 9,192 23,065	21,387 11,524 5,297 12,017 1,956	4,837 429 2,702 22,280 1,049	95,734 9,913 2,023 28,367 7,919
Patients on Books at End		652,412	8,051 1,977 6,072 46,229 6,444	10,207 2,012 7,529 9,035 14,008	1,544 41,926 12,373 6,475 5,762	8,615 10,537 3,324 11,386 26,437	27,486 13,717 7,802 13,260 2,418	6,429 532 2,963 25,270 1,774	108,090 12,125 2,478 33,915 9,017
Deaths in Hosnital	3	44,280	469 156 338 2,866 517	938 96 502 511 858	3,442 775 475 288	593 422 258 727 2,390	1,451 1,002 346 691 176	411 47 274 2,502 102	8,153 445 128 2,044 520
Discharges		115,930	1,656 930 1,900 13,738	3,041 748 748 885 2,480	964 9,729 1,594 2,229 1,046	1,719 1,876 502 2,242 5,503	2,523 3,018 2,406 1,275 524	617 192 623 4,276 292	9,834 2,514 624 7,682 1,273
ssions ansfers)	Rate ²	107,1	72.5 99.0 129.2 137.0 59.2	170.7 123.9 162.3 53.1	172.1 140.8 76.9 92.6	81.3 95.3 88.4 130.2	64.1 138.2 166.2 44.5	127.8 109.7 170.0 133.3	136.4 77.3 120.9 113.8
All Admissions (Except Transfers)	Number	173,864	2,179 945 2,286 17,389	3,811 471 1,349 1,787 3,562	1,043 13,094 3,324 2,490 1,514	2,398 2,766 787 3,375 7,668	4,628 4,379 3,465 1,821 861	1,749 237 940 7,157	21,895 3,237 775 10,178 2,099
st	Rate1	73.6	50.0 71.2 90.4 93.8	108.5 92.6 122.9 40.8 81.3	109.9 90.1 54.3 46.0 51.5	47.4 68.9 59.9 89.0	42.9 80.2 91.4 32.9 103.0	66.5 95.8 120.4 94.8 52.9	99.4 55.1 80.0 58.0
First	Number	119,411	1,502 680 1,600 11,907 684	2,422 352 1,021 1,374 2,878	666 8,380 2,350 1,238 1,040	1,396 2,000 533 2,309 5,940	3,098 2,540 1,905 1,346 647	911 207 666 5,089	15,955 2,309 513 7,191 1,238
STATE		United States	Alabama	Commecticut Dalaware District of Columbia Florida	Idaho	Kentucky	Minesota————————————————————————————————————	Nebraska Nevada Wew Hampshire New Jorsey ² New Mexico	New York————————————————————————————————————

1,060,72 1,111,32 1,111,32 924,66 798,61 1,002,89 850,30 1,771,90 1,075,27 836,76	1,044.21 662.16 1,148.75 1,244.91
00474 00740 00074 00740	24.27
4,847 40,447 3,422 5,966 1,603 7,623 16,466 1,349 11,290 11,063	7,496 5,462 15,056 651
6,191 49,197 4,155 7,397 1,679 20,239 1,401 1,401 13,422	8,515 6,606 16,263 715
2,813 400 382 119 439 975 148 128	744 426 1,253 65
1,989 3,639 909 1,594 1,798 4,222 2,322 2,376	1,684 1,832 3,021
165.8 170.2 102.6 112.6 63.1 60.7 136.1	95.3 119.1 120.6 86.8
2,759 7,708 1,386 2,283 7,57 2,398 5,268 4,71 4,71 3,819	2,379 2,384 4,452 256
116.8 49.4 110.3 77.6 73.8 40.3 46.3 92.3 67.1	87.0 87.0 80.8 56.6
1,943 898 1,727 1,727 1,370 3,803 3,59 2,294	1,492 1,740 2,981 167
Oregon Bransylvania Rhode Island South Carolina South Dakota Tennessee ² Texas Texas	Washington—West Virginia—Wisconsin?

1 Number of first admissions per 100,000 of the estimated civilian population as of July 1, 1955. 2 Number of admissions per 100,000 of the estimated civilian population as of July 1, 1955,

3 Number of average daily resident patients per 1,000 of the estimated civilian population as of July 1, 1955.

4 Based on average daily resident patient population of hospitals reporting expenditures. 5 Includes the county hospital system within the State.

expenditures were available from 263 of the 266 State and county hospitals. However, the hospitals reporting expenditures represented 99.7 person of the total areage daily resident-partiant population. Estimated dividing in soft of 19.1, 1955, from Current Population Reports, Population Estimates Series P-25, No. 129, U. S. Department of Commerce, Bursen of Gensus, Meshington, D. C. SOUNCES: Data based on reports from 265 of the 266 State and county hospitals for mental disease for the 1955 Census of Mental Patients, Data on

Over 652,000 persons were either resident in the 265 hospitals or were in some form of extramural care at the end of 1955 as compared to about 642,000 in 1954, an increase of about 1.6 percent.

The average number of patients in daily residence during the year was 554,592, an increase of 1.3 percent over the corresponding number of 547,393 in 1954. Of these patients, 96.4 percent were in State hospitals and only 3.6 percent in county hospitals. However, in the five States with county mental hospital systems, the patients resident in the county mental hospitals represent a significant portion of the mentally ill hospitalized in public hospitals.

There were 3.4 persons hospitalized, on the average, for each 1,000 estimated persons in the civilian population on any given day; this rate varied among the 48 States and the District of Columbia from a low of 1.4 to a high of 8.7. The median rate was

3.0. Figure 1 shows the distribution of these rates by State. The Southern and Western States have low rates as compared to the Northern and Eastern ones.

The average rate of first admissions to public mental hospitals was 73.6 per 100,000 estimated civilian population, a decrease of 1.4 percent below the 1954 rate. The median rate in 1955 was 77.6, with a range from a low of 32.9 to a high of 122.9. In 1954 the median rate was 79.1, with a range of 32.6 to 126.7.

Per patient maintenance expenditure for the United States was \$1,107.79 per year or \$3,04 per patient per day as compared to \$2.84 in 1954. The median expenditure was \$1,075.27 with a range of \$561.95 to \$1,889.49. On a daily per patient basis the median was \$2.95 with a range of \$1,54 to \$5.18, as compared to a median of \$2.69 and a range of \$1.30 to \$5.06 in 1954.

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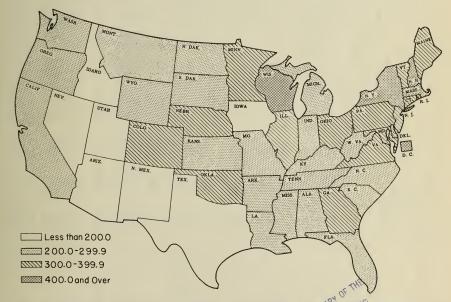
Series MHB-H-3

PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL 1956 and 1957

This is the first in a new series of reports which will replace the publication "Patients in Public Hospitals for the Prolonged Care of the Mentally Ill" previously published in the

Current Reports Series¹ and "Mental Patient Data for Fiscal Year" which appeared in Public Health Reports².

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 100,000 CIVILIAN POPULATION:1957



¹ The most recent in this series was "Patients in Public Hospitals for the Prolonged Care of the Mentally III, 1955" Series MHB-H-2, December 1956,

The most recent in this series was "Mental Patient Data for Fiscal Year 1956", Public Health Reports, Vol. 72, No. 1, January 1957.

For sale by the Superintendent of Documents, U. S. Government Printing Office Washington 25, D. C. - Price 5 cents

TABLE 1

MOVEMENT AND ADMINISTRATIVE DATA FOR PUBLIC MENTAL HOSPITALS: UNITED STATES AND MACH STATE FISCAL YEAR 1056

and things	and tures	Fer Patient ²	\$1,194.88 1,184.20	746.41 1,319.68 948.85 1,362.64 1,343.97	1,330.10 1,226.35 1,794.18 1,475.49 1,330.05	2,012.23 889.26 764.33 1,249.55 1,078.89	1,402.22 1,276.80 1,199.69 1,138.08 1,815.20	755.87 715.75 1,140.01 1,200.92 1,409.27 1,374.58	1,587.42	1,110.06 667.02 1,008.66 1,122.53 1,392.23	1,203.62
We for an encode Forward (trives	dya apirananina	Total	\$663,280,934.00 656,230,633.00	5,404,035.00 2,202,551.00 4,703,446.00 50,397,326.00 49,604,442.00	7,576,223.00 6,899,418.00 15,551,993.00 2,502,433.00 1,843,445.00	14,327,083.00 7,145,203.00 8,971,759.00 1,476,964.00 40,601,783.00	15,453,888.00 13,941,429.00 6,179,622.00 5,813,332.00 8,035,908.00	5,661,448.00 5,914,263.00 3,424,602.00 11,549,201.00 32,110,189.00 31,142,388.00	34,313,765.00	12,573,653.00 3,487,168.00 12,015,213.00 2,138,411.00 6,571,343.00 5,987,975.00	536,814.00 3,673,647.00 31,344,734.00
MUPAMENT AND ADMINISTRATIVE DATA FOR FUBLIC MENTAL HUSELITALS: UNLING STATES AND EACH STATE FISCAL MEAN AND ADMINISTRATIVE DATA TO THE TABLE FISCAL MANAGEMENT AND ADMINISTRATIVE FISCAL MANAGEMENT AND ADMINISTR	Total Full-time Employees	at End of Year	153,715	1,366 1,368 1,368 9,891 9,783	1,879 1,735 3,322 620	2,667 2,285 2,011 355 8,950	3,914 3,548 1,946 1,843 2,170	1,588 1,940 894 2,682 7,366 7,131	6,716	2,901 1,405 3,229 497 2,073 1,877	90 866
STAILE F.	rage Dally Resident ent Popula-	tion r Rate ¹	335.7	233.9 157.0 285.0 281.5 281.5	361.2 356.8 391.9 413.7 338.0	880.1 211.8 323.1 190.3 399.3	248.8 246.5 187.2 185.6 214.8	252.5 278.3 327.9 349.3 478.1	285.7	351.2 244.9 285.9 294.0 333.8	179.8
AND EACH	Average Dally Resident Patient Popula-	Number	555,103	7,240 1,669 4,957 36,985 36,909	5,696 5,626 8,668 1,696 1,386	7,120 8,035 11,738 1,182 37,633	11,021 10,919 5,151 5,108 4,427	7,490 8,263 3,004 9,617 22,785 22,656	21,616	11,430 5,228 11,912 1,905 4,720 4,667	2,667
STATES	mesident ents at end of Year	Rate	333.5	235.1 154.2 285.1 284.4 283.7	356.9 352.4 385.8 408.3 333.2	875.9 212.7 326.0 189.9 396.0	246.2 244.2 184.9 183.2 213.2	247.2 278.3 325.4 338.9 465.8	283.8	348.9 244.7 282.0 287.0 336.4	177.0
S: UNITED	Mesident Patients at end of Year	Number	551,390	7,277 1,639 4,958 37,365 37,273	5,628 5,558 8,535 1,674 1,366	7,086 8,069 11,844 1,179 37,323	10,908 10,820 5,088 5,041 4,394	7,335 8,264 2,981 9,329 22,202 22,105	21,469	11,356 5,224 11,753 1,860 4,756 4,690	22,022
L HOSPITAL	Deaths	Hospital	48,236	438 151 364 2,802 2,799	605 603 1,030 214 123	595 558 934 173 3,813	940 939 584 583 279	736 451 264 851 2,195 2,195	1,521	1,130 422 711 214 448 448	30 313 2,548
SLIC MENTA	Dis-	dialges	133,208	1,581 640 1,713 15,000 14,773	1,229 591 3,042 812 431	1,147 2,399 836 10,398	2,821 2,486 2,509 2,236 1,438	2,144 2,398 585 2,417 6,462 5,676	2,915	3,518 2,452 1,182 674 1,357	181 674 5,286
ILA FOR PUI	Readmis-	gino a	60,058	713 82 741 5,900 5,778	360 167 1,651 321 149	418 399 702 417 6,106	1,174 1,079 1,382 1,339	1,255 1,148 277 1,192 1,809 1,585	1,672	2,118 1,071 487 234 628 628 549	35 247 2,240
THAT IVE DA	First Admis-	sions	125,539	1,581 748 1,400 12,376 12,245	1,349 808 2,558 647 371	909 1,480 2,681 665 8,341	2,610 2,406 1,604 1,349 1,195	1,473	3,360	2,529 1,748 1,326 682 1,102	196 681 5,519
ADMINIS	Excluding Transfers	Rate	112.3	74.1 78.1 123.1 139.1 137.2	108.4 61.8 190.3 236.1 126.8	164.0 49.5 93.1 174.2 153.3	85.4 78.7 108.5 97.7 83.0	92.0 97.5 98.0 132.3 164.8 147.9	65.5	142.8 132.0 43.5 141.4 122.3 105.0	93.1 166.3 141.9
CALENT AND ADMINIS	Exclu Tran	Number	185,597	2,294 830 2,141 18,276 18,023	1,709 975 4,209 968 520	1,327 1,879 3,383 1,082 14,447	3,784 3,485 2,986 2,688 1,711	2,728 2,894 898 3,641 7,853	5,032	7,647 2,819 1,813 916 1,730	231 928 7,759
WOON			United States	Arisona-Arison	Colorado	District of Columbia Florida Georgia	Indians————————————————————————————————————	Kentucky	Michigan	Minnesota-Mississippi	Nevada

1,529.46 1,302.88 1,299.60	1,070.50 1,045.71 1,180.47 900.39 1,098.88	1,133.28 962.70 835.72 1,062.54 655.35	923.17 1,243.74 1,183.85 960.87 1,131.53 655.52 1,243.60 1,225.50
1,485,106.00 126,076,129.00 125,685,365.00	10,570,091.00 2,010,901.00 33,459,122.00 7,110,393.00 5,446,054.00	45,735,668.00 3,285,689.00 5,108,768.00 1,702,187.00 5,435,491.00 5,106,686.00	14,883,354.00 1,642,981.00 1,516,513.00 10,698,331.00 3,682,723.00 18,697,559.00 18,389,877.00
25,709	2,851 518 7,834 2,132 1,451	11,443 853 1,371 451 1,293 1,154	2,125 417 417 2,562 2,080 2,080 1,026 3,675 3,604
123.4 613.8 613.4	228.2 299.5 313.1 356.8 286.8	369.7 418.3 268.7 233.5 243.9	184.0 160.9 347.2 314.3 277.5 286.2 397.4 215.1
96,767	9,874 1,923 28,344 7,897 4,956	40,357 3,413 6,113 1,602 8,294 8,249	16,122 1,321 1,281 11,134 7,217 5,618 15,035 15,006 654
115.9	226.4 293.8 317.0 354.0 288.2	366.0 416.9 273.6 235.1 240.3 238.8	181.9 157.9 334.4 311.5 275.0 273.3 398.0 210.9
912 96,266 96,212	9,794 1,886 28,057 7,835 4,980	39,947 3,402 6,224 1,613 8,169 8,120	15,937 1,234 11,037 7,152 5,364 15,087 15,087
3,437 8,436	518 159 2,302 577 541	3,308 451 455 169 660 660	1,244 138 147 1,024 642 484 1,510 1,510
467 11,598 11,116	2,971 686 8,408 1,541 2,215	3,923 968 1,736 571 2,833 2,531	5,477 373 2,955 1,751 1,963 3,456 3,286 186
170. 5,921 5,778	1,210 299 3,370 888 973	2,116 539 561 242 1,208 1,125	1,871 116 170 1,544 910 1,009 1,531 106
380 16,436 16,108	2,341 607 7,478 1,371 2,102	5,118 952 1,782 508 2,179 1,950	4,528 2,307 2,307 1,418 1,893 3,604 3,434 162
69.9 141.8 138.8	82.1 141.1 119.8 102.1 178.0	66.3 182.7 103.0 109.3 99.6 90.4	73.0 150.9 108.5 89.5 147.8 136.0 131.2 88.2
22,357 21,886	3,551 906 10,848 2,259 3,075	7,234 1,491 2,343 750 3,387 3,075	6,399 7,844 2,328 2,902 2,902 4,965 2,88
New Mexico	North Carolina North Dakota Ohio Oklahoma Oregon	Pennsylvania———————————————————————————————————	Texas- Utah- Variont Varionta Varionta Washington- Wash Variona Masconain- Prolonged Care ³
			22,357 14.18 16,456 5,921 11,598 8,437 96,866 10.0 96,771 613.8 25,799 125,605,612.0 0 22,357 14.18 16,456 5,921 11,598 8,437 96,866 10.0 96,771 613.8 25,799 125,605,612.0 0 21,886 11,11

¹ Rate per 100,000 estimated civilian population.
² Forbund maintenance expenditures divided by the average daily resident patient population.
³ Forbunged eare hospitals comprise the state and county mental hospitals only. Public hospitals, in addition, include the state psychopathic hospitals.

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TABLE 2

MOVEMENT AND ADMINISTRATIVE DATA FOR FUBLIC MENTAL HOSPITALS: UNITED STATES AND EACH STATE, FISCAL YEAR 1957

nditures	Per	Patient ²	\$1,327.51	785.29 1,440.96 998.35 1,361.34 1,342.94	1,610.23 1,504.06 1,944.44 1,592.73 1,431.50	2,099.43 941.80 867.80 1,392.08 1,137.88	1,483.45 1,361.41 1,380.40 1,314.48 1,994.98	1,198.17 865.09 1,207.05 1,480.52 1,560.98 1,521.75	1,769.16 1,721.90 1,140.22 779.78 1,186.61 1,181.76 1,645.86 1,484.71 1,293.21
Maintenance Expenditures		Total	\$729,463,516.00 720,616,202.00	5,761,686.00 2,340,116.00 4,879,913.00 49,761,104.00 48,989,086.00	9,170,265.00 8,460,316.00 16,854,399.00 2,769,754.00 2,005,530.00	14,683,389.00 7,738,736.00 10,264,373.00 1,582,792.00 42,136,699.00	16,212,619.00 14,746,765.00 6,926,845.00 6,534,277.00 8,728,029.00	8,697,483.00 7,149,952.00 3,564,427.00 14,084,229.00 34,724,004.00	38,820,604.00 37,649,430.00 4,133,689,033.00 4,133,683.00 2,148,128.00 7,692,748.00 7,692,748.00 588,410.00 3,642,103.00
Total	Full-time Employees	at End of Year	162,885	1,370 526 1,440 11,180	2,072 1,914 3,333 746 526	2,741 2,279 2,041 386 9,248	3,932 3,585 1,947 1,829 2,266	2,211 2,267 2,887 7,408 7,184	6,734 6,734 2,943 1,460 3,740 4,76 2,131 1,845 105
Daily	esident nt Popula-	Rate	326.3	234.7 146.2 280.3 268.8 268.2	349.0 344.7 387.0 404.4 325.8	864.5 205.4 319.8 178.8 386.3	241.5 239.4 179.5 177.8 208.8	242.0 273.0 318.6 336.5 462.5 459.8	281.8 280.8 341.0 248.1 276.3 275.5 324.8 319.8 177.0
Average Daily	Resident Patient Popula-	Number	549,496	7,337 1,624 4,888 36,553 36,479	5,695 5,625 8,668 1,739	6,994 8,217 11,828 1,137 37,031	10,929 10,832 5,018 4,971 4,375	7,259 8,265 2,953 9,513 22,245 22,117	21,943 21,865 11,304 5,378 111,673 1,818 4,674 4,602 4,55 2,623
Resident	at End ear	Ratel	325.7 325.1	234.3 143.6 281.4 269.2 268.7	351.1 346.1 389.3 404.0 328.8	865.6 206.9 320.4 173.0 384.8	242.1 239.9 180.2 178.9 208.7	244.8 274.1 319.5 329.4 459.3 456.6	279.5 278.7 337.0 247.5 287.5 267.0 318.7 313.8 185.6
Resi	Patients at End of Year	Number	548,563	7,324 1,595 4,907 36,606 36,545	5,730 5,649 8,720 1,737	7,003 8,278 11,852 1,100 36,879	10,955 10,854 5,038 5,003 4,372	7,341 8,298 2,962 9,311 22,092 21,964	21,769 21,705 11,173 5,366 11,933 1,762 4,586 4,515 4,77 2,586
	Deaths	HOSDITAL	47,078	496 161 399 2,529 2,529	559 556 1,064 188 98	507 577 964 173 3,693	851 849 457 457 264	668 479 211 901 2,172 2,169	1,512 1,511 1,511 1,185 349 672 672 192 376 376 376 376
	Dis- charges)	145,397	1,906 903 1,943 15,193 15,008	1,456 742 3,395 748 443	1,014 1,169 2,634 826 11,687	2,957 2,742 2,473 2,187 1,650	2,256 2,514 574 3,802 7,327 6,560	3,288 3,086 3,548 2,475 1,020 1,548 1,548
	Readmis- sions		65,562	812 129 873 6,107 6,021	389 195 1,757 273 141	412 554 940 398 6,763	1,239 1,186 1,326 1,284 1,284	1,447 1,001 268 1,302 2,148 1,956	1,790 1,734 2,192 1,025 667 277 277 260 760 52
	First Admis-	slons	130,460	1,698 696 1,310 12,565 12,478	1,334 800 2,776 673 395	1,203 2,028 2,579 683 8,336	2,625 2,426 1,522 1,274 1,171	1,634 2,174 565 3,074 6,507 5,972	3,823 3,656 2,408 1,290 1,290 642 726 726 695
issions	Excluding Transfers	Rate	116.4	80.3 74.3 125.2 137.3 136.0	105.6 61.0 202.4 220.0 124.7	199.6 64.5 95.1 170.0 157.5	85.4 79.8 101.9 91.5	102.7 104.9 89.9 154.8 179.9	72.1 69.2 138.8 135.1 46.4 139.2 103.3 103.3
All Admissions	Exch	Number	196,022	2,510 825 2,183 18,672 18,499	1,723 4,533 4,533 946 536	1,615 2,582 3,519 1,081 15,099	3,864 3,612 2,848 2,558 1,704	3,081 3,175 833 4,376 8,655 7,928	5,613 5,390 4,600 2,929 1,958 1,860 1,486 2,65 975
			United States	Alabama-Arizona-Arizona-Arizona-Arizona-Arizona-California	Colorado	District of Columbia Florida Georgia	Indians————————————————————————————————————	Kentucky	Michigan—Prolonged Care* Mimnesota—Mississippi—Missouri—M

1,618.65 1,550.22 1,444.23 1,440.86 1,173.90	1,194.47 1,334.36 913.84 1,142.10 1,370.79 1,360.43	1,151.26 851.26 950.88 716.09 676.71	1,112.20 1,287.58 1,240.76 1,042.40 1,397.63 803.28	1,348.62 1,326.55 1,259.44
35,296,300.00 1,485,106.00 138,601,080.00 138,200,137.00 11,417,336.00	2,207,377.00 37,231,176.00 7,002,769.00 5,760,747.00 54,406,707.00 53,896,197.00	3,916,589.00 5,294,858.00 1,559,451.00 5,824,664.00 5,470,544.00	17,585,000.00 1,668,701.00 1,548,468.00 11,429,926.00 9,775,007.00 4,314,407.00	20,288,575.00 19,910,120.00 792,190.00
7,857 422 28,077 27,990 2,934	502 7,953 2,107 1,444 12,206 11,758	958 1,421 462 1,437 1,299	4,474 430 398 2,691 2,172 1,142	3,898 3,823 163
390.8 119.0 606.1 605.8 220.2	287.0 303.9 341.6 285.9 360.2	409.9 269.5 236.0 236.2 234.8	176.6 153.0 333.7 301.4 263.6 271.9	390.0 389.1 203.6
21,806 958 95,969 95,915 95,915	1,848 27,902 7,663 5,044 39,690 39,617	3,402 6,220 1,640 8,134 8,084	15,811 1,296 1,248 10,965 6,994 5,371	15,044
392.7 118.4 605.2 604.9 218.9	281.7 302.5 339.4 285.9 357.0	409.2 273.1 238.8 239.2 237.7	177.0 154.1 331.8 302.9 257.9	389.3 388.5 199.0
21,910 95,814 95,766 9,669	1,814 27,770 7,612 5,044 39,343	3,396 6,304 1,660 8,236 8,183	15,846 1,305 1,241 11,020 6,842 5,401	15,016 14,984 615
2,476 82 8,636 8,634 630	2,229 518 527 3,047	428 466 141 699 699	1,363 94 154 1,017 635 427	1,406
5,080 301 13,067 12,604 3,545	767 9,177 1,827 2,293 4,383	1,148 1,818 660 3,145 2,793	5,727 259 389 2,890 1,836 2,050	3,862
2,400 162 6,163 5,989 1,324	233 3,557 885 1,074 2,587 2,469	623 603 276 1,409 1,286	2,415 131 183 1,651 1,037 1,122	1,767
5,724 354 16,550 16,264 2,955	746 7,648 1,333 2,052 5,435 5,266	1,747 532 2,440 2,205	7,685 378 346 2,465 1,371 1,782	3,674
145.6 64.1 143.5 140.5 96.9	152.0 122.1 98.9 177.2 72.8	195.2 101.8 116.3 111.8	79.3 60.1 141.4 113.1 90.8	141.1 135.0 85.1
8,124 516 22,713 22,253 4,279	979 11,205 2,218 3,126 8,022 7,735	1,620 2,350 808 3,849 3,491	7,100 529 4,116 2,408 2,904	5,441 5,208 263
New Versey	North Dakota	Rhode Island	Utah	Wisconsin

Rate per 100,000 estimated civilian population.

Total mainteamne expenditures divided by the severage daily resident patient population. In addition, include the state psychopathic hospitals.

Prolonged care hospitals comprise the state and county mental hospitals only. Public hospitals, in addition, include the state psychopathic hospitals.

The data presented for 1956 are final figures obtained from the schedules submitted for the annual census of mental patients, and, with the exception of estimates for two hospitals (for maintenance expenditures only), represent the actual experience of the public mental hospitals in the United States.

The figures presented for 1957 are estimates obtained from a special questionnaire sent to public mental hospitals requesting gross data on the movement of mental hospital populations so that early publication could be achieved. Since these data are obtained shortly after the close of the fiscal year they are provisional and, therefore, subject to change. However, experience has indicated that changes between provisional and final data are negligible.

This report includes data from all of the 220 state and the 48 county prolonged care hospitals for the mentally ill as well as the 12 psychopathic hospitals which are primarily short-term teaching or intensive treatment facilities. In order to maintain continuity with each of the two series mentioned above the tables presented in this report show totals for both prolonged care hospitals and all mental hospitals for those states which have psychopathic hospitals. It is expected that the next report in this series will show final data for 1957 and estimates for 1958 in essentially the same format as is used here.

There was a decrease of 2,827 patients in the 1957 year-end resident populations of these hospitals, a drop of 0.5 per cent. This was the second successive year in which a decrease occurred in the resident population of the nation's public mental hospitals. However, this decrease was not nearly as large as the drop of 1.4 per cent which occurred between year-end 1955 and 1956. Furthermore, the 195 decrease occurred in only 28 of the 48 states and the District of Columbia as compared to 39 states in 1956.

Tables 1 and 2 present data for each state for 1956 and 1957 respectively. Table 3 shows the number of patient transactions occurring in the public mental hospitals in the United States, the number of personnel employed full time, the total amount spent for maintenance of these hospitals for 1956 and 1957 and the percent change between these two years for each of these items. The percentage change between 1955 and 1956 for each of these items is also presented. It is interesting to note that admissions showed a greater per cent increase and discharges a smaller per cent increase during the period 1956-57 than in the period 1955-56 while deaths decreased during this period as compared to an increase during 1955-56. This is consistent with the fact that the decrease in the resident population in 1957 was not as great as that in 1956. The decrease of 2.4 per cent in the number of deaths between 1956 and 1957 is quite striking in view of the fact that there was a substantial increase of 8.6 per cent between 1955 and 1956. There are no data available at this time which would indicate the reason for this change.

TABLE 3

MOVEMENT OF PATIENT POPULATION IN PUBLIC MENTAL HOSPITALS: UNITED STATES 1955-1957

ITEM	1955	1956	1957	Per cent	Change
± £ £arts	1999	1990	1957	1956-57	1955-56
All Admissions	178,020	185,597	196,022	5.6	4.3
First AdmissionsReadmissions	122,394 55,626	125,539 60,058	130,460 65,562	3.9 9.2	2.6 8.0
Discharges	119,146	133,208	145,397	9.2	11.8
Deaths in Hospital	44,400	48,236	47,078	-2.4	8.6
Resident Patients at End of Year	559,281	551,390	548,563	-0.5	-1.4
Personnel Employed Full Time at End of Year	145,462	153,715	162,885	6.0	5.7
Maintenance Expenditures					
Total	\$618,229,797.00	\$663,280,934.00	\$729,463,516.00	10.0	7.3
Per Patient	1,112.84	1,194.88	1,327.51	11.1	7.4

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For the United States as a whole there were 548,563 patients resident in the public mental hospitals at the end of 1957 which yielded a rate of 325.7 per 100,000 civilian population, a decrease of 2.3 per cent from the rate of 333.5 at the end of 1956. This rate ranged from a low of 118.4 in New Mexico to a high of 605.2 in New York as compared with a range of 115.9 in New Mexico to 610.6 in New York at the end of 1956. The District of Columbia was not included in the computation of this range since a substantial number of patients resident in the hospital are not residents of the District of Columbia.

It should be noted that the average daily resident patient rates differ only slightly from those obtained using the number of resident patients at the end of the year. Figure 1 shows the geographic distribution of the average daily resident patient rate per 100,000 civilian population for 1957. These rates are highest in the northeastern and east central states and lowest in the south central and west central states.

There were 196,022 patients admitted to the public mental hospitals of the United States in 1957. This yielded an admission rate of 116.4 per 100,000 civilian population as compared to a rate of 112.3 in 1956, an increase of 3.7 per cent. This rate ranged from a low of 46.4 in Missouri to a high of 220.0 in Delaware as compared to a range of 43.5 in Missouri to

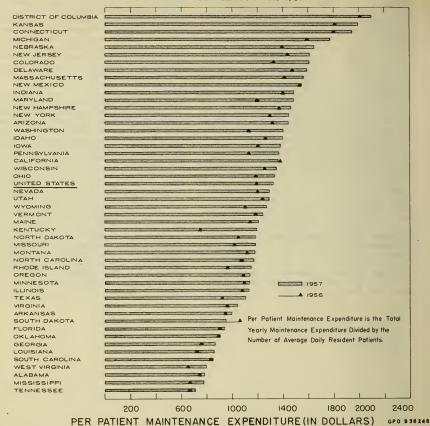
236.1 in Delaware in 1956.

The per patient expenditure for the maintenance of public mental hospitals in the United States was \$1,327.51 for 1957, or \$3.64 per patient day, as compared to \$1,194.88 in 1956, or \$3.25 per patient per day. This represents an increase of 11.1 per cent between 1956 and 1957. These expenditures for 1957 range from a low of \$716.09 per patient per year in Tennessee to a high of \$2,099.43 in the District of Columbia. The corresponding range in 1956 was from a low of \$655.35 in Tennessee to a high of \$2,012.23 in the District of Columbia. Figure 2 shows the per patient maintenance expenditure in rank order by state for 1957

with the corresponding 1956 values.

The interpretation of differences among states in the movement of patient population and personnel and expenditure data should be made with caution. Differences in the age, sex and diagnostic distributions of first admissions and resident patients, distributions of personnel by type of personnel and maintenance expenditures by type of expenditure, which will be available at a later date, will provide a partial explanation for some of these differences. However, in order to understand fully interstate differences it is necessary to take into account such additional factors as policies and laws affecting the admission and release of patients, existence of other facilities for the mentally ill in the community, the extent and effectiveness of various therapeutic programs and many others. Thus, these data present a picture of the movement of the mental hospital population indicating the relative size of the problem in each state, but do not provide a comparison of the relative effectiveness of mental hospital programs.

PER PATIENT MAINTENANCE EXPENDITURES IN ALL PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL 1956 AND 1957



DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
BETHESDA 14, MARYLAND

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MENTAL HEALTH STATISTICS

Current Reports

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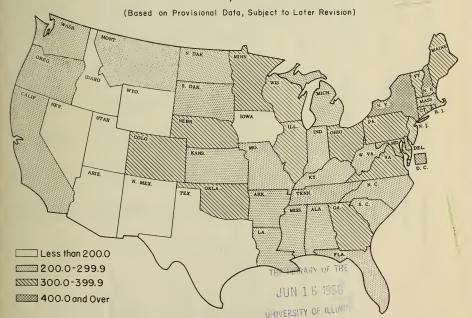
Series MHB-H-3 (Rev.)

REVISED PROVISIONAL DATA ON PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL 1956 and 1957

This is the first in a new series of reports which will replace the publication "Patients in Public Hospitals for the Prolonged Care of the Mentally Ill" previously published in the

Current Reports Series and "Mental Patient Data for Fiscal Year" which appeared in Public Health Reports.

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 100,000 CIVILIAN POPULATION:1957



¹ The most recent in this series was "Patients in Public Hospitals for the Prolonged Care of the Mentally III, 1955" Series MHB-H-2, December 1956.

² The most recent in this series was "Mental Patient Data for Fiscal Year 1956", <u>Public Health Reports</u>, Vol. 72, No. 1, January 1957,

TABLE

PROVISIONAL MOVEMENT AND ADMINISTRATIVE DATA FOR PUBLIC MENTAL HOSPITALS: UNITED STATES AND EACH STATE FISCAL YEAR 1956

	All Admissions	suoissi					Resi	Resident	Average Daily	Daily	Total	Maintenance Exp	Expenditures
	Excluding Transfers	Excluding Transfers	First Admis-	Readmis-	Dis-	Deaths	Patients at end of Year	at end	Resident Patient Popula-	lent Popula-	Full-time Employees		500
	Number	Ratel	sions		0	Hospital	Number	Rate	Number	Rate	at End of Year	Total	Patient ²
United States	185,597	112.3	125,539	60,058	133,208	48,236	551,390	333.5	555,103	335.7	153,715	\$663,280,934.00 656,230,633.00	\$1,194.88 1,184.20
Arisona-Arisona-Arisona-Arisona-Arisona-Arisona-Arisona-Arisonala-Arisonala-Arisonala-Arisona-	2,294 830 2,141 18,276 18,023	74.1 78.1 123.1 139.1 137.2	1,581 748 1,400 12,376	713 82 741 5,900 5,778	1,581 640 1,713 15,000 14,773	438 151 364 2,802 2,799	7,277 1,639 4,958 37,365 37,273	235.1 154.2 285.1 284.4 283.7	7,240 1,669 4,957 36,985 36,909	233.9 157.0 285.0 281.5 281.0	1,366 526 1,368 9,991 9,783	5,404,035.00 2,202,551.00 4,703,446.00 50,397,326.00 49,604,442.00	746.41 1,319.68 948.85 1,362.64 1,343.97
Colorado Prolonged Care ² Comecticut Delaware Prolonged Care ³	1,709 975 4,209 968 520	108.4 61.8 190.3 236.1 126.8	1,349 808 2,558 647 371	360 167 1,651 321 149	1,229 591 3,042 812 431	605 1,030 214 123	5,628 5,558 8,535 1,674 1,366	356.9 352.4 385.8 408.3 333.2	5,696 5,626 8,668 1,696 1,386	361.2 356.8 391.9 413.7 338.0	1,879 1,735 3,322 620	7,576,223.00 6,899,418.00 15,551,993.00 2,502,433.00 1,843,445.00	1,330.10 1,226.35 1,794.18 1,475.49 1,330.05
District of Columbia Florida Georgia Idaho	1,327 1,879 3,383 1,082 14,447	164.0 49.5 93.1 174.2 153.3	909 1,480 2,681 665 8,341	418 399 702 417 6,106	1,147 2,399 836 10,398	595 558 934 173 3,813	7,086 8,069 11,844 1,179 37,323	875.9 212.7 326.0 189.9 396.0	7,120 8,035 11,738 1,182 37,633	880.1 211.8 323.1 190.3 399.3	2,667 2,285 2,011 355 8,950	14,327,083.00 7,145,203.00 8,971,759.00 1,476,964.00 40,601,783.00	2,012.23 889.26 764.33 1,249.55 1,078.89
Indians————————————————————————————————————	3,784 3,485 2,986 2,688 1,711	85.4 78.7 108.5 97.7 83.0	2,610 2,406 1,604 1,349 1,195	1,174 1,079 1,382 1,339	2,821 2,486 2,509 2,236 1,438	940 939 584 583 279	10,908 10,820 5,088 5,041 4,394	246.2 244.2 184.9 183.2 213.2	11,021 10,919 5,151 5,108 4,427	248.8 246.5 187.2 185.6 214.8	3,914 3,548 1,946 1,843 2,170	15,453,888.00 13,941,429.00 6,179,622.00 5,813,332.00 8,035,908.00	1,402.22 1,276.80 1,199.69 1,138.08 1,815.20
Kentucky	2,728 2,894 898 3,641 7,853	92.0 97.5 98.0 132.3 164.8	1,473	1,255 1,148 277 1,192 1,809 1,585	2,144 2,398 585 2,417 6,462 5,676	736 451 264 851 2,195 2,195	7,335 8,264 2,981 9,329 22,202 22,105	247.2 278.3 325.4 338.9 465.8	7,490 8,263 3,004 9,617 22,785 22,656	252.5 278.3 327.9 349.3 478.1	1,588 1,940 894 2,682 7,366	5,661,448.00 5,914,263.00 3,424,602.00 11,549,201.00 32,110,189.00	755.87 715.75 1,140.01 1,200.92 1,409.27
Michigan Prolonged Care ³	5,032	65.5	3,360	1,672	2,915	1,521	21,469	283.8	21,616	285.7	6,716	34,313,765.00	1,587,42
Minnesota	7,647 2,819 1,813 1,730 1,730	142.8 132.0 43.5 141.4 122.3	2,529 1,748 1,326 682 1,102	2,118 1,071 487 234 628 549	3,518 2,452 1,182 674 1,357	1,130 422 711 214 448 448	11,356 5,224 11,753 1,860 4,756 4,690	348.9 244.7 282.0 287.0 336.4	11,430 5,228 111,912 1,905 4,720 4,667	351.2 244.9 285.9 294.0 333.8	2,901 1,405 3,229 4,97 2,073	412,573,653.00 3,487,168.00 12,015,213.00 2,138,411.00 6,571,343.00 5,987,975.00	1,110.06 667.02 1,008.66 1,122.53 1,392.23
Nevada	231 928 7,759	93.1	196 681 5,519	35 247 2,240	181 674 5,286	30 313 2,548	22,022	177.0	2,667	179.8	90 866	536,814.00 3,673,647.00 31,344,734.00	1,203.62

16,436 5,921 16,108 5,778		7,478 3,370 1,371 888 2,102 973	5,118 2,116 952 539	242 9 1,208 1,125		2,300 1,544 1,418 910 1,893 1,009 3,604 1,540 3,434 1,531	
767 11,598 11,116 8,436		8,408 2,302 1,541 577 2,215 541	m 	2,833 660 2,531 660		2,955 1,024 1,751 642 1,963 484 3,456 1,510 3,286 1,510	
96,266		7,835		1,613 8,169 8,120		11,037 7,152 5,364 15,087 15,057	_
610.6		317.0 354.0 288.2		235.1		311.5 275.0 273.3 398.8	
96,767	9,874	28,344 7,897 4,956	3,413	1,602 8,294 8,249	1,321	11,134 7,217 5,618 15,035 15,006	654
123.4 613.8 613.4	228.2	313.1 356.8 286.8	418.3	233.5	184.0	314.3 277.5 286.2 397.4	215.1
25,709	2,851	7,834 2,132 1,451	853	1,293	4,125	2,562 2,080 1,026 3,675 3,604	150
1,485,106.00 126,076,129.00 125,685,365.00	2,010,901.00	33,459,122.00 7,110,393.00 5,446,054.00	3,285,689.00	1,702,187.00 4,5,435,491.00 4,5,106,686.00	14,883,354.00 1,642,981.00 1,516,513.00	10,698,331.00 8,166,238.00 3,682,723.00 18,697,559.00 18,389,877.00	722,968.00
1,529.46 1,302.88 1,299.60	1,070.5	1,180.47 900.39 1,098.88	1,133.28	1,062.54 655.35 619.07	923.17	960.87 1,131.53 655.52 1,243.60 1,225.50	1,105.46

1 Rate per 100,000 estimated civilian population.

2 Total maintenance expenditures divided by the everage daily resident patient population.
4 Prolanged care hospitals computes the state and county mental hospitals only. Public hospitals, in addition, include the state psychopathic hospitals.
5 Estimated by the Biometries Franch, National Institute of Montal Health.
Estimated by the Biometries Franch.

TABLE 2

PROVISIONAL MOVEMENT AND ADMINISTRATIVE DATA FOR PUBLIC MENTAL HOSPITALS: UNITED STATES AND EACH STATE, FISCAL YEAR 1957

penditures	Per	Patient ²	\$1,332.75 1,319.20	753.98 1,440.96 998.35 4 1,593.25 4 1,571.65	1,559.57 1,452.74 1,933.87 1,550.89 1,432.37 2,099.43	951.03 854.42 1,361.05 1,137.88 1,481.80 1,359.75	1,378.90 1,313.36 1,994.98 974.40 876.55 1,207.05	5 1,480.52 1,560.98 1,521.75 1,784.83 1,736.83 1,137.41	1,184.86 1,181.76 1,645.86 1,484.71 1,374.76	1,618.65
Maintenance Expenditures	F + C E	TOTAL	\$732,180,096 723,283,135	5,527,419 2,340,116 4,879,913 4,58,290,498 4,57,384,212	8,880,178 8,170,230 16,762,798 2,695,453 2,006,746 14,683,389	7,814,599 10,106,034 1,547,509 42,136,699 16,194,626 14,728,772	6,933,097 6,540,529 8,728,029 7,073,199 7,225,431 3,564,427	5 14,084,229 34,724,004 33,656,618 38,978,947 37,819,372 12,796,974 3,778,298	13,839,122 2,148,438 7,692,747 6,832,634 625,514 3,707,790	35,296,300
Total	Full-time Employees	at End of Year	162,114	1,364 526 1,458 10,535 10,328	2,072 1,914 3,390 716 496 2,741	2,292 2,083 381 9,261 3,932 3,585	1,949 1,840 2,266 2,087 2,317 904	2,885 7,408 7,184 6,997 6,756 2,943 1,452	3,705 467 2,074 1,831 105 880	7,857
Daily	Popula-	Rate1	326.2	234.5 146.2 280.3 4269.0	348.9 344.6 387.0 404.2 325.8 864.5	205.4 319.8 178.8 386.3 241.5 239.4	179.8 178.1 208.8 242.0 272.3 318.6	336.5 462.5 459.8 280.4 279.6 341.0 243.3	276.5 275.5 324.8 319.8 177.0	390.8
Average Daily Resident	Patient Popula-	Number	549,376 548,274	7,331 1,624 4,888 436,586 436,512	5,694 5,624 8,668 1,738 1,401 6,994	8,217 11,828 1,137 37,031 10,929	5,028 4,980 4,375 7,259 2,953	9,513 22,245 22,117 21,839 21,775 11,304 5,275	11,680 1,818 4,674 4,602 4,552 2,623	21,806
lent at end	agr	Ratel	325.7	234.3 143.6 281.4 271.2 270.6	351.1 346.1 389.4 398.6 328.6 865.6	206.9 320.4 173.0 384.8 242.1 239.9	180.2 178.9 208.7 244.8 273.3 319.5	329.4 459.3 456.6 281.5 280.7 337.0 241.1	275.9 267.0 318.7 313.8 185.6 457.7	392.7
Resident Patients at end	of Year	Number	548,431	7,324 1,595 4,907 36,880 36,801	5,730 5,649 8,722 1,714 1,413 7,003	8,278 11,852 1,100 36,879 10,955	5,038 6,372 7,341 8,274 2,962	9,311 22,092 21,964 21,927 21,863 11,173 5,226	11,655 1,762 4,586 4,515 4,77 2,586	21,910
	Deaths in	nospi vai	46,772	496 161 399 2,491 2,488	559 1,054 1,054 98 98	572 964 173 3,693 851 849	419 419 264 668 484 211	2,172 2,172 2,169 1,449 1,448 1,185	672 192 376 371 35 256	2,476
	Dis- charges		145,454	1,907 629 1,943 15,343	1,364 650 3,192 748 443 1,014	1,214 2,634 1,029 11,687 2,957 2,742	2,403 2,117 1,650 2,252 2,389 2,389	3,802 7,327 6,560 3,288 3,988 3,548	1,384 1,020 1,853 1,548 1,548	5,080
	Readmis- sions		65,311	812 129 873 6,162 6,104	389 195 1,751 282 150 412	374 940 414 6,763 1,239 1,186	1,315 1,273 536 1,448 1,001	1,302 2,148 1,956 1,829 1,773 2,192 1,018	515 277 903 760 52 280	2,400
1	Admis-	STORE	129,668	1,698 696 1,310 12,369	1,334 800 2,776 664 1,203	1,676 2,579 672 8,336 2,625 2,426	1,534 1,286 1,168 1,634 2,070	3,074 6,507 5,972 3,782 3,615 2,408 1,897	1,390 642 957 726 213 695	5,724
ssions	ers	Rate1	115.8	80.3 74.3 125.2 135.0	105.6 61.0 202.1 220.0 124.7 199.6	51.2 95.1 170.8 157.5 85.4 79.8	101.9 91.5 81.3 102.8 101.5 89.3	154.8 179.9 164.8 72.0 69.2 138.8	45.1 139.2 129.3 103.3 172.6	145.6
All Admissions Excluding	Transfers	Number	194,979	2,510 825 2,183 18,531 18,531	1,723 4,527 946 536 1,615	2,050 3,519 1,086 15,099 3,864 3,612	2,849 2,559 1,704 3,082 3,071 828	4,376 8,655 7,928 5,611 5,388 4,600 2,915	1,905 919 1,860 1,486 265 975	8,124
	STATE		United States	Alabama	Colorado	Florida Georgia Idaho- Illinois Indiana, Prolonged Care ³	Iowa- Prolonged Care ³ Kantucky- Iouisfana- Maine-	Maryland *** Massachusetts* Prolonged Care 3 *** Michigan *** Prolonged Care 5 *** Michigan *** Minnesota *** Minnesota *** Missississippi	Missouri Montana Nehraska Nehraska Prolonged Care ³ Nevada	New Jersey*

1,427.19 1,423.75 1,173.90 1,179.05	1,299.19 913.84 1,099.16 5,1,370.79 5,1,360.43	851.26 950.88 693.52 679.64 999.84 1,287.58	1,240.76 1,046.93 1,445.31 803.28 1,355.78 1,333.93 1,557.86
136,964,411 136,557,927 11,417,336 2,178,880	36,249,989 7,002,769 5,544,179 5,54,406,707 5,53,896,197 4,923,257	5,294,858 1,559,451 5,641,066 5,286,946 15,894,466 1,668,701	1,548,469 11,479,642 10,108,520 4,314,407 20,992,330 20,016,920 956,525
28,030	7,912 2,107 1,457 12,206 11,758 1,072	1,420 462 1,437 1,299 4,089 430	387 2,693 2,217 1,142 3,961 3,886 165
606.1 605.8 220.2 287.0	303.9 341.6 285.9 360.2 359.5 409.9	269.5 236.0 236.2 234.8 177.6 153.0	333.7 301.4 263.6 271.9 390.0 198.7
95,968 95,914 9,726 1,848	27,902 7,663 5,044 39,690 39,617 3,402	6,220 1,640 8,134 8,084 15,897 1,296	1,248 10,965 6,994 5,371 15,041 15,006 614
605.2 604.9 218.9 281.7	302.5 339.4 285.9 357.0 355.8	274.5 238.8 235.1 233.5 177.1 154.1	331.8 302.9 257.8 273.5 389.3 199.4
95,814 95,766 9,669 1,814	27,770 7,612 5,044 39,343 39,204 3,396	6,336 1,660 8,093 8,040 15,857 1,305	1,241 11,020 6,840 5,401 15,016 14,984 616
8,636 8,634 630 141	2,227 518 502 3,047 3,045	466 141 695 693 1,235	1,017 635 427 1,407 1,407
13,067 12,604 3,545 750	9,176 1,827 2,178 4,383 4,279 1,123	1,818 660 3,141 2,789 5,985	389 1,836 2,050 3,954 3,737 217
6,162 5,988 1,324 328	3,564 890 993 2,587 2,469	603 276 1,321 1,198 2,386 131	183 1,664 1,037 1,122 1,831 1,818
16,551 16,265 2,955 649	7,641 1,328 2,053 5,435 5,266	1,747 532 2,440 2,205 4,591 378	346 2,492 1,371 1,782 3,658 3,444
143.5 140.5 96.9 151.7	122.1 98.9 172.7 72.8 70.2	101.8 116.3 109.2 98.8 77.9 60.1	141.4 114.2 90.8 147.0 142.3 136.4 89.0
22,713 22,253 4,279 977	11,205 2,218 3,046 8,022 7,735 1,620	2,350 808 3,761 3,403 6,977	529 4,156 2,408 2,904 5,489 5,262 275
New York	Ohio	South Carolina————————————————————————————————————	Vermont Virginia Washington West Virginia' West Virginia' Frolonged Care Wyoming

Pate per 100,000 estimated civilian population.
7 Total maintenance expenditures divided by the average daily resident patient population.
8 Total maintenance expenditures divided by the average daily resident patient only. Public hospitals, in addition, include the state psychopathic hospitals.
4 Data obtained from provisional reports submitted by the state in question.
5 Estimated by the Blometrics Branch, National Institute of Mental Health.

The data presented for 1956 were obtained from the schedules submitted for the annual census of mental patients, and, with the exception of estimates for two hospitals (for maintenance expenditures only), represent the actual experience of the public mental hos-

pitals in the United States.

The majority of the statistics presented for 1957 were obtained from the schedules submitted in the annual census of mental patients. Where the census data were not available, at the time of this report, data obtained from a special questionnaire were used. Where data were not available from either of these sources estimates were made by the Biometrics Branch, NIMH and are so noted in the table. All of the data should be considered provisional and subject to change when final figures are published in Patients in Mental Institutions.

The earlier issue of this report, published in December 1957, was based on data obtained from the special questionnaire and on estimates made by the Biometrics Branch, NIMH. Reports subsequently received for the annual census of patients in mental institutions were compared with these preliminary figures. For the most part the differences between the figures published in December 1957 (MHB-H-3) and those published in this issue were minor. There was one extreme difference that should be noted. This is in the maintenance expenditures for the state of California. The earlier estimate prepared by the Biometrics Branch was \$49,761,604 while the actual amount recently reported by the state of California Department of Mental Hygiene was \$58,290,498 a difference of \$8,529,394. However, since several of the states have reported lower maintenance expenditures than those they supplied for the earlier provisional report, the provisional maintenance expenditures now reported for all public mental hospitals in the United States of \$732,180,096 is only 0.4 per cent higher than that reported in December 1957.

This report includes data from all of the 220 state and the 48 county prolonged care hospitals for the mentally ill as well as the 12 psychopathic hospitals which are primarily short-term teaching or intensive treatment facilities. In order to maintain continuity with each of the two series mentioned above the tables presented in this report show totals for both prolonged care hospitals and all mental hospitals for those states which have psychopathic hospitals. It is expected that the next report in this series will show comparable statistics for 1957 and 1958 in essentially the same format as is used here.

There was a decrease of 2,959 patients in the 1957 year-end resident populations of these hospitals, a drop of 0.5 percent. This was the second successive year in which a decrease occurred in the resident population of the nation's public mental hospitals. However, this decrease was not nearly as large as the drop of 1.4 per cent which occurred between year-end 1955 and 1956. Furthermore, the 1957 decrease occurred in only 30 of the 48 states and the District of Columbia as

compared to 39 states in 1956.

TABLE 3

MOVEMENT OF PATIENT POPULATION IN PUBLIC MENTAL HOSPITALS: UNITED STATES 1955-1957

ITEM	1955	1956 ¹	1957 ¹	Per cent	Change
4.4.2011	1,55	2330	2551	1956-57	1955-56
All Admissions	178,020	185,597	194,979	5.1	4.3
First AdmissionsReadmissions	122,394 55,626	125,539 60,058	129,668 65,311	3.3 8.7	2.6 8.0
Discharges	119,146	133,208	145,454	9.2	11.8
Deaths in Hospital	44,400	48,236	46,772	-3.0	8.6
Resident Patients at End of Year	559,281	551,390	548,431	-0.5	-1.4
Personnel Employed Full Time at End of Year	145,462	153,715	162,114	5.5	5.7
Maintenance Expenditures					
Total	\$618,229,797.00	\$663,280,934.00	\$732,180,096.00	10.4	7.3
Per Patient	1,112.84	1,194.88	1,332.75	11.5	7.4

Based on provisional data. Subject to revision prior to final publication.

Tables 1 and 2 present data for each state for 1956 and 1957 respectively. Table 3 shows the number of patient transactions occurring in the public mental hospitals in the United States, the number of personnel employed full time, the total amount spent for maintenance of these hospitals for 1956 and 1957 and the percent change between these two years for each of these items. The percentage change between 1955 and 1956 for each of these items is also presented. It is interesting to note that admissions showed a greater per cent increase and discharges a smaller per cent increase during the period 1956-57 than in the period 1955-56 while deaths decreased during this period as compared to an increase during 1955-56. This is consistent with the fact that the decrease in the resident population in 1957 was not as great as that in 1956. The decrease of 3.0 per cent in the number of deaths between 1956 and 1957 is quite striking in view of the fact that there was a substantial increase of 8.6 per cent between 1955 and 1956. There are no data available at this time which would indicate the reason for this change.

For the United States as a whole there were 548,431 patients resident in the public mental hospitals at the end of 1957 which yielded a rate of 325.7 per 100,000 civilian population, a decrease of 2.3 per cent from the rate of 333.5 at the end of 1956. This rate ranged from a low of 118.4 in New Mexico to a high of 605.2 in New York as compared with a range of 115.9 in New Mexico to 610.6 in New York at the end of 1956. The District of Columbia was not included in the computation of this range since a substantial number of patients resident in the hospital are not residents of

the District of Columbia.

It should be noted that the average daily resident patient rates differ only slightly from those obtained using the number of resident patients at the end of the year. Figure 1 shows the geographic distribution of the average daily resident patient rate per 100,000 civilian population for 1957. These rates are highest in the northeastern and east central states and lowest in the south central and west central states.

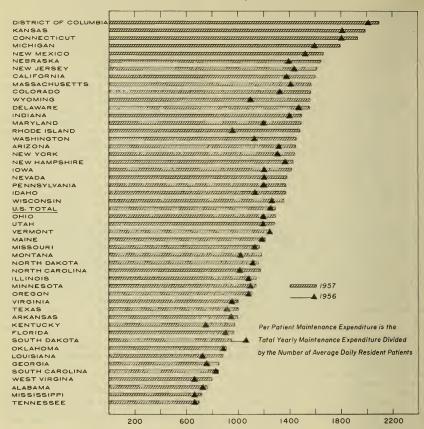
There were 194,979 patients admitted to the public mental hospitals of the United States in 1957. This yielded an admission rate of 115.8 per 100,000 civilian population as compared to a rate of 112.3 in 1956, an increase of 3.1 per cent. This rate ranged from a low of 45.1 in Missouri to a high of 220.0 in Delaware as compared to a range of 43.5 in Missouri to 236.1 in Delaware in 1956.

The per patient expenditure for the maintenance of public mental hospitals in the United States was \$1332.75 for 1957, or \$3.65 per patient day, as compared to \$1,194.88 in 1956, or \$3.25 per patient per day. This represents an increase of 11.5 per cent between 1956 and 1957. These expenditures for 1957 range from a low of \$693.52 per patient per year in Tenessee to a high of \$2,099.43 in the District of Columbia. The corresponding range in 1956 was from a low of \$655.35 in Tenessee to a high of \$2,012.23 in the District of Columbia. Figure 2 shows the per patient maintenance expenditure in rank order by state for 1957 with the corresponding 1956 values.

The interpretation of differences among states in the movement of patient population and personnel and expenditure data should be made with caution. Differences in the age, sex and diagnostic distributions of first admissions and resident patients, distributions of personnel by type of personnel and maintenance expenditures by type of expenditure, which will be available at a later date, will provide a partial explanation for some of these differences. However, in order to understand fully interstate differences it is necessary to take into account such additional factors as policies and laws affecting the admission and release of patients, existence of other facilities for the mentally ill in the community, the extent and effectiveness of various therapeutic programs and many others. Thus, these data present a picture of the movement of the mental hospital population indicating the relative size of the problem in each state, but do not provide a comparison of the relative effectiveness of mental hospital programs.

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PER PATIENT MAINTENANCE EXPENDITURES IN ALL PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL, 1956 AND 1957



PER PATIENT MAINTENANCE EXPENDITURE, (IN DOLLARS) 000 0 42 430

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December, 1958

Bethesda 14, Maryland

Series MHB-H-3

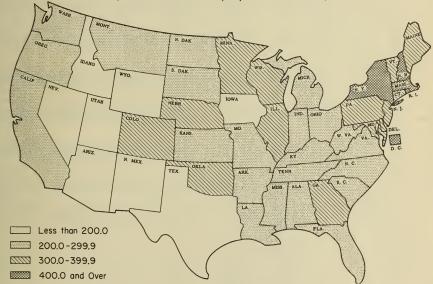
PROVISIONAL DATA ON PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL

1957 and 1958

This report presents summarized information on public hospitals for the care of the mentally ill in the United States. This release is similar in scope to that published in May 1958.

AVERAGE DAILY RESIDENT PATIENTS IN PUBLIC HOSPITALS FOR MENTAL DISEASE PER 100,000 CIVILIAN POPULATION:1958

(Based on Provisional Data, Subject to Later Revision)



1 See Series MHB-H-3(Rev.) May 1958

For sale by the Superintendent of Documents, U. S. Government Printing Office Washington 25, D. C. - Price 10 cents

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APR 15 1959

UNIVERSITY OF ILLINOIS

TABLE 1

PROVISIONAL MOVEMENT AND ADMINISTRATIVE DATA FOR PUBLIC MENTAL HOSPITALS: UNITED STATES AND EACH STATE, FISCAL YEAR 1957² (Statistics based on data from the 277 Public Mental Hospitals)

ce	Per patient ³	\$1,332.31 1,318.76	753.98 1,440.96 998.35 1,593.25 1,571.66	1,559.57 1,452.74 1,933.87 1,550.89 1,432.37 2,099.43	951.03 854.42 1,361.05 1,137.88 1,481.80 1,359.75	1,378.90 1,313.36 1,994.98 974.40 876.55 1,207.05	1,470.56 1,546.05 1,506.91 1,784.83 1,736.83 1,140.22	1,184.86 1,181.76 1,645.86 1,484.71 1,374.76 1,413.57
Maintenance expenditures	Total	\$731,875,462 722,982,357	5,527,419 2,340,116 4,879,913 58,290,789 57,384,503	8,880,178 8,170,230 16,762,798 2,695,453 2,006,746 14,683,389	7,814,599 10,106,034 1,547,509 42,136,699 16,194,626 14,728,772	6,933,097 6,540,529 8,728,029 7,073,199 7,225,431 3,564,427	13,995,321 34,390,325 33,326,795 38,978,947 37,819,372 12,889,033 3,778,298	13,839,122 2,148,438 7,692,747 6,832,634 625,514 3,707,790
Total full-time	at end of year	162,753	1,364 526 1,458 10,666 10,459	2,072 1,914 3,390 716 496 2,741	2,292 2,083 381 9,261 3,932 3,585	1,949 1,840 2,266 2,087 2,317	2,983 7,454 7,211 6,997 6,756 2,943 1,452	3,705 467 2,074 1,831 105 880
erage daily ident patient population	Rate ²	326.3	233.8 154.2 278.2 270.0 269.4	350.6 346.3 384.0 408.0 328.9 876.4	199.9 320.5 177.7 383.9 242.9	180.8 179.1 212.6 241.7 272.8 319.9	336.3 465.8 463.2 284.0 283.1 341.3	277.4 273.0 328.2 323.2 179.8 463.4
Average resident popula	Number	549,330	7,331 1,624 4,888 36,586 36,586	5,694 5,624 8,668 1,738 1,401 6,994	8,217 11,828 1,137 37,031 10,929 10,832	5,028 4,980 4,375 7,259 8,243 2,953	9,517 22,244 22,116 21,839 21,775 11,304 5,275	11,680 1,818 4,674 4,602 4,55 2,623
patients f year	Rate ²	325.8	233.5 151.5 279.3 273.8 273.2	352.8 347.8 386.4 402.1 331.7 892.0	201.4 321.1 171.9 382.3 243.5 241.3	181.2 179.9 212.4 244.5 273.8 320.9	329.0 462.7 460.0 285.1 284.3 337.3	276.8 264.6 322.1 317.1 188.5 456.9
Resident patients at end of year	Number	548,626	7,324 1,595 4,907 37,106 37,027	5,730 5,649 8,722 1,713 1,413	8,278 11,852 1,100 36,879 10,955	5,038 5,003 4,372 7,341 8,274 2,962	9,311 22,092 21,964 21,927 21,863 11,173 5,226	11,655 1,762 4,586 4,515 2,586
Deaths	hospital	46,848	496 161 399 2,586 2,583	559 556 1,054 1,88 98 98 499	572 964 173 3,693 851 849	419 419 264 668 484 211	861 2,172 2,169 1,449 1,448 1,185 349	672 192 376 371 35 256
Dis-	charges	145,116	1,907 629 1,943 15,580 15,397	1,364 650 3,192 748 443 1,012	1,214 2,634 1,029 11,687 2,957 2,742	2,403 2,117 1,650 2,252 2,389 2,389	3,539 6,896 6,184 3,288 3,548 2,548	1,384 1,020 1,853 1,548 1,548
Readmis-	sions	65,219	812 129 873 6,245 6,187	389 195 1,751 281 150 578	374 940 414 6,763 1,239 1,186	1,315	1,303 2,148 1,956 1,829 1,773 2,192	515 277 903 760 52 280
First admis-	stons	129,278	1,698 696 1,310 12,394 12,279	1,334 800 2,776 664 386 1,035	1,676 2,579 672 8,336 2,625 2,426	1,534 1,286 1,168 1,634 2,070	3,082 6,246 5,732 3,732 3,615 1,897	1,390 642 957 726 213 695
issions	Rate ²	115.5	80.0 78.3 124.2 137.5	106.1 61.3 200.6 221.8 125.8	49.9 95.3 169.7 156.5 85.9 80.3	102.4 92.0 82.8 102.6 101.6 89.7	154.9 175.8 161.0 73.0 70.1 138.9	45.2 138.0 130.6 104.7 172.3
All admissions excluding	Number	194,497	2,510 825 2,183 18,639 18,466	1,723 4,527 995 945 536 1,613	2,050 3,519 1,086 15,099 3,864 3,612	2,849 2,559 1,704 3,082 3,071 828	4,385 7,688 7,688 5,611 5,388 4,600 2,915	1,905 919 1,860 1,486 265 975
State		United States	Alabama	Colorado	Florida- Georgia- Idaho- Illinois- Indiana- Prolonged care*	Iowa	Maryland ⁵ Massothusetts Prolonged care ⁴ Mehigan Prolonged care ⁶ Prolonged care ⁶ Minnsota ⁶ Mississipi	Missouri Montana Nebraska Prolonged care*

1,585.72	1,427.19	1,166.43	1,179.05	1,299.19	913.84	1,099.16	1,392.70	1,382.37	1,447.17	851.26	950.88	716.09	676.71	999.84	1,457.64	1,240.76	1,046.93	1,445.31	739.43	1,355.78	1,333,93	1,557.86
34,478,272	136,964,411	11,344,741	2,178,880	36,249,989	7,002,769	5,544,179	55, 237, 273	54,726,763	4,923,257	5,294,858	1,559,451	5,824,664	5,470,544	15,894,466	1,875,988	1,548,469	11,479,642	10,108,520	4,000,182	20,392,330	20,016,920	956,525
7,750	28,030	3,033	524	7,912	2,107	1,457	12,645	12,203	1,072	1.420	462	1,437	1,299	4,089	427	387	2,693	2,217	1,078	3,961	3,886	165
390.2	596.1	221.6	287.0	303.7	345.0	290.1	360.9	360.2	410.9	269.1	238.7	237.6	263.2	176.8	153.9	339.1	299.3	263.6	276.4	390.2	389.3	198.1
21,743	95,968	9,726	1,848	20,305	7,663	5,04	39,662	39,589	3,402	6.220	1,640	8,134	8,084	15,897	1,287	1,248	10,965	6,994	5,422	15,041	15,006	614
393.2	595.2	220.4	281.7	302.3	342.7	290.1	357.0	355.7	410.1	274.2	241.6	236.4	234.9	176.4	156.1	337.2	300.8	257.8	273.4	389.5	388.7	198.7
21,910	95,814	699,6	1,814	27,770	7,612	5,84	39,234	39,095	3,396	6,336	1,660	8,093	8,040	15,857	1,305	1,241	11,020	6,840	5,365	15,016	14,984	919
2,504	8,636	630	141	2,227	518	502	3,047	3,045	428	466	141	695	693	1,235	76	154	1,017	635	428	1,407	1,407	73
5,081	13,067	3,538	750	9,176	1,827	2,178	4,383	4,279	1,123	1.818	099	3,141	2,789	5,985	434	389	2,979	1,836	2,002	3,954	3,737	217
2,400	6,162	1,319	328	3,564	890	993	2,581	2,463	623	603	276	1,321	1,198	2,386	ដ	183	1,664	1,037	792	1,831	1,818	105
5,724	16,551	2,955	679	7,641	1,328	2,053	5,438	5,269	266	1.747	532	2,440	2,205	4,591	378	346	2,492	1,371	1,785	3,658	3,444	170
145.8	141.1	4.76	151.7	122.0	6*66	175.2	73.0	70.4	195.7	101.7	117.6	109.9	99.4	77.6	6.09	143.8	113.4	8.06	131.3	142.4	136.5	88.7
8,124	22,713	4,274	977	11,205	2,218	3,046	8,019	7,732	1,620	2,350	808	3,761	3,403	6,977	209	529	4,156	2,408	2,577	5,489	5,262	275
New JerseyNew Mexico	New York	North Carolina5	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania5	Prolonged care	Rhode Island	South Carolina	South Dakota	Tennessee ⁵	Prolonged care	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Prolonged care	Wyoming

Data obtained in 1957 census of patients in mental institutions with exceptions noted in footnote 5.

Rate per 100,000 centraded dividian uppulation. Source: U. S. Bureau of the Census, Current Population Reports, Series P-25, No. 186.

Based on the average daily resident patient population of hospitals reporting expenditures.

State and county hospitals only.

Specific items for following hospitals obtained in 1957 specific items for states in question:

a. One state hospital. Maryland - movement and administrative data.

One state hospital-North Carolina-movement and administrative data. One state hospital - Maryland - personnel data only.

One state hospital-North Carolina-personnel and financial data.

One state hospital-Minnesota - financial data, One paychopathic hospital-Pennsylvania-financial data, One county hospital-Tennessee-financial data.

TABLE 2

PROVISIONAL MOVDRENT AND ADMINISTRATIVE DATA FOR FUBLIC MENTAL HOSPITALS: UNITED STATES AND EACH STATE, FISCAL YEAR 1958²

nce	Per	patient	\$1,485.51 1,470.95	899.24 1,547.21 1,229.69 1,853.17 1,819.84	1,723.92 1,602.26 2,118.01 1,721.43 1,509.66 2,254.16	1,201.20 954.93 1,631.89 1,633.44 1,498.25	1,562.31 1,484.16 2,243.15 1,090.87 1,007.19 1,374.68	1,631.44 1,752.60 1,709.55 1,864.70 1,805.97 1,420.19	1,283.68 1,335.66 1,675.58 1,566.29 1,560.81
Maintenance expenditures	Total		\$812,836,068 803,247,863	6,597,707 2,480,182 6,056,221 67,744,397 66,395,082	10,041,861 9,203,380 18,392,823 3,033,164 2,143,723 15,700,201	10,452,878 11,218,535 1,760,812 49,346,571 17,953,627 16,359,365	7,760,003 7,293,169 9,454,895 7,905,545 8,336,550 4,075,912	15,162,625 38,241,781 37,102,286 41,101,660 39,666,335 15,711,573 4,010,043	14,948,505 2,337,400 7,568,616 6,767,552 767,918 4,289,863
Total full-time	at end of	year	169,259	1,488 1,548 1,504 11,795 11,795	2,233 2,077 3,558 770 536 2,748	2,817 2,127 395 9,753 4,041 3,682	2,003 1,898 2,199 2,076 2,337 922	3,223 7,970 7,738 6,455 6,230 2,967 1,423	3,947 532 2,079 1,861 140 890
daily patient	ation	Rate	319.3	230.4 143.4 281.6 260.6 260.1	347.3 342.5 376.9 395.1 318.4 866.3	200.1 313.4 164.0 375.0 241.8 238.7	176.1 174.3 202.7 238.9 269.0 317.1	320.6 453.4 450.9 280.8 279.8 330.8	274.6 256.6 312.8 307.1 190.7
Average daily resident patie	population	Number	547,368	7,337 1,603 4,925 36,556 36,484	5,825 5,744 8,684 1,762 1,420 6,965	8,702 11,748 1,079 36,892 11,059	4,967 4,914 4,215 7,247 8,277 2,965	9,294 21,820 21,703 22,042 21,964 11,149 5,195	11,645 1,750 4,517 4,434 492 2,593
patients		Rate	318.2	232.3 143.8 285.1 262.6 262.6	349.3 345.3 385.4 390.8 869.9	203.5 314.7 162.0 370.3 240.3	171.3 169.8 194.1 233.7 270.7 314.8	321.1 450.2 447.6 279.1 278.3 328.4 237.8	274.1 253.7 306.0 300.6 196.9
Resident patient at end of year		Number	545,465	7,398 1,608 4,986 36,835 36,746	5,857 5,790 8,880 1,743 1,424 6,994	8,849 11,797 1,066 36,437 10,992	4,831 4,789 4,035 7,091 8,328 2,943	9,309 21,670 21,545 21,911 21,848 11,068 5,158	11,625 1,730 4,419 4,340 508 2,577
Deaths	hospital		51,391	554 185 384 2,891 2,890	590 1,098 1,098 113 113	1,145 1,145 4,113 942 942	513 513 292 744 265	908 2,257 2,256 1,555 1,553 1,553 1,214 359	23 4 4 4 2 2 3 2 3 4 4 4 4 5 2 3 4 4 4 4 5 2 3 4 4 4 4 5 2 3 4 4 4 4 5 2 3 4 4 4 4 5 2 3 4 4 4 4 4 5 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Dis-	charges		154,945	2,118 1,018 1,022 17,272 17,113	1,625 829 3,305 671 435 1,076	1,528 2,541 663 11,298 3,075 2,767	2,888 2,596 1,806 2,894 2,561	3,051 7,339 6,639 3,748 3,469 3,150 2,560	1,904 861 1,736 1,435 220 752
Readmis-	stons		71,505	898 387 871 6,837 6,777	273 1,719 242 147 147	668 885 339 6,480 1,339	1,517 1,475 690 1,735 1,761	1,239 2,334 2,136 1,939 1,849 1,099	655 306 931 811 50
First	admis- sions		138,612	1,828 809 1,782 13,703	1,949 1,353 2,804 595 370 1,216	1,937 2,855 564 8,394 2,741 2,451	1,616 1,367 1,330 1,918 1,612 636	2,633 6,665 6,156 3,751 3,545 2,531 2,021	1,724 713 1,115 902 288 727
issions	rers 2	Rate	122.6	85.6 107.0 151.7 146.5 145.2	143.7 97.0 196.3 187.7 115.9	59.9 99.8 137.2 151.2 89.2	111.1 100.8 97.2 120.4 109.6	133.6 187.0 172.3 72.5 68.7 141.1 143.8	56.1 149.4 141.7 118.6 131.0 179.9
All admissions excluding	transfers	Number	210,117	2,726 1,196 2,653 20,540 20,361	2,410 1,626 4,523 837 517 1,605	2,605 3,740 903 14,874 4,080 3,737	3, 133 2, 842 2, 020 3, 653 3, 373 877	3,872 8,999 8,292 7,000 1,000	2,379 1,019 2,046 1,713 1,038
**************************************	90 B1 C		United States	Alabama-Arizona-Arizona-Arizona-Arkensas-California-Prolonged care*	Colorado	Florida Georgia- Idaho- Illinois- Indiana Prolonged care ⁴	Iowa	Maryland- Massenbiestts- Prolonged care* Mchigan- Prolonged care*	Missouri Montana Nebraska Prolonged care ⁴ Nevada.

1,805.18 1,791.36 1,561.76 1,560.35 1,448.98 1,772.19 1,537.60 1,091.28 6,1,42.55 6,1,360.10 1,360.10	881.22 1,335.66 894.32 890.81 1,122.16 1,695.48 1,1125.37 1,561.42 1,561.42 1,561.42 1,561.42 1,561.42 1,561.42 1,561.43 1,563.69
39,466,600 1,700,000 148,912,000 148,912,000 148,912,913,409 42,914,912 8,210,773 6,52,917,220 5,350,000 5,350,000	5,596,64.7 2,227,886 7,284,258 6,883,159 17,943,239 17,643,239 12,403,450 12,403,450 10,683,453 4,599,598 22,181,900 21,716,011 843,635
8, 201 20, 889 20, 889 3, 909 3, 909 5, 209 11, 447 11, 447 11, 498 11, 698	1,476 1,678 1,539 1,539 4,10 4,10 2,617 1,167 1,167 3,959 3,959
283.8 116.3 5883.2 5889.2 215.3 275.3 275.3 299.4 296.5 286.5 352.1 405.4	270.7 241.0 234.6 234.6 173.7 153.9 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0 253.0
21,863 95,349 95,289 95,289 1,787 1,787 1,787 27,910 7,528 39,013 38,907 3,409	1,668 8,145 8,096 15,990 1,218 11,027 11,027 12,924 14,918 14,918
283.1 115.7 115.7 584.6 584.6 584.6 200.3 300.3 327.7 245.7 406.9	272.2 240.2 240.2 241.8 241.6 175.6 150.5 150.5 253.9 276.3 276.3 276.3 276.3 276.3
21,827 94,611 94,551 1,721 27,995 7,376 7,376 7,376 7,998 38,208 38,208 3,422	6,385 1,662 8,337 16,162 1,296 11,067 6,871 6,871 14,930 14,891 628
2,660 76 9,524 9,523 789 161 161 2,407 5,23 3,432 1,432 4,18	194, 194, 194, 1,24, 1,28, 1,38, 1,088, 1,677, 1,677
5,825 13,653 13,653 11,098 1,098 1,098 1,098 1,098	1,834 755 3,419 3,610 7,265 7,265 3,227 1,726 4,142 3,892 255 255
2,670 6,599 6,599 1,817 1,817 3,944 2,507 2,507 2,519	2,757 1,687 1,687 2,757 1,033 1,033 2,239 2,239
5,833 17,481 17,246 3,888 3,888 1,548 2,258 5,682 5,682 5,571	1,861 2,484 5,449 3,449
149.3 146.6 127.6 190.3 113.2 113.2 183.5 74.8 74.8	105.8 125.5 124.2 124.2 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3 125.3
8,503 23,703 25,705 11,235 12,219 2,547 2,547 2,547 8,289 8,289 1,632	2,481 23,426 3,3426 489 489 489 489 5,547 5,547 5,547 5,547 5,547
New Jersey- New Mext Coo- New York- Prolonged care* North Carolina- North Dakota- Oklahoma- Oklahoma- Permsylvanta- Permsylvanta- Prolonged care*	South Davolina. South Dakota. Tennessee Prolonged care* Utah Virginia. Winginia West Virginia. West Virginia. West Virginia. West Virginia. West Virginia. West Virginia.

Data obtained in 1958 special survey of public mental hospitals.

2 have per 100,000 estimated cyrlina population. Source: U.S. Bureau of the Census, Ourrent Population Reports, Series P-25, No. 189.

3 have been considered expenditures divided by the average deflay resident patient population.

4 Prolonged care hospitals comprise the state and county mental hospitals only; which hospitals in addition include systhogatio hospitals.

5 Data on personnel and expenditures for one state hospital not available. Therefore, per patient expenditures are based on data for remaining hospitals.

6 Data on expenditures for the psychopathic hospital not available. Therefore, the per patient expenditures are based on data for the state hospitals.

National Institute of Biometrics Branch Mental Health Prepared by:

The 1957 movement and administrative data for the nation's 277 public mental hospitals were obtained, for the most part, from schedules submitted for the annual census of mental patients. The exceptions to this are indicated on footnote 5 of Table 1. A special survey of these public mental hospitals supplied similar data for 1958. All of the data shown in Tables 1 and 2 are provisional and are subject to change prior to their publication in the annual report, Patients in Mental Institutions.

The public mental hospitals represented by this report include 265 prolonged care hospitals (state and county hospitals) and 12 psychopathic hospitals. The latter are primarily short term, intensive treatment or

teaching facilities.

Between 1957 and 1958 the resident patient population of these hospitals declined by 3,161 patients. This represents a decrease of 0.6% which is similar to that experienced between 1956 and 1957 (see Table 3). This is the third consecutive year in which a decline in the resident population of these hospitals has occurred. The greatest decrease, 1.4%, took place between 1955 and 1956. Between year-end 1957 and 1958 twenty-eight states experienced a decline in their resident patient population as compared with twenty-nine states between 1956 and 1957.

Table 3 indicates that the percent increase in admissions was greater between 1957 and 1958 than between 1956 and 1957, while the percent increase in discharges was smaller. The number of deaths showed a considerable increase during the latter period (9.7%) as compared to a decrease (2.9%) between 1956 and 1957. Thus, it appears that, although the rate of decline in the year-end resident patient population of the public mental hospitals was approximately the same for both periods, the movement patterns responsible for the decline were different for each period.

There were 545,465 patients resident in public mental hospitals in the United States at the end of 1958, a rate of 318,2 per 100,-000 civilian population which is a decrease of 2.4% from the 1957 year-end rate of 325.8. The resident patient rate at the end of each year showed a considerable variation among states. For example, in 1958 the rate ranged from a low of 115.7 in New Mexico to a high of 584.6 in New York. A similar range of rates prevailed in 1957 (120.8 in New Mexico to 595.2 in New York). The District of Columbia has been excluded from consideration here since a substantial proportion of patients admitted to and resident in its one public mental hospital are nonresidents of the District.

The geographic distribution of the 1958 average daily resident patient rates is shown on the map. These rates which differ only slightly from the year-end resident patient rates are generally highest in the northeastern and east central states and lower in the south central and west central states.

The 210,117 admissions to the public mental hospitals in the United States in 1958 represent an admission rate of 122.6 per 100,000 civilian population, an increase of 6.1% over the 1957 rate of 115.5. As was true for resident patient rates, admission rates also varied considerably among states during each year. In 1958 this rate ranged from a low of 56.1 in Missouri to a high of 196.3 in Connecticut as compared to a range of 45.2 in Missouri to 221.8 in Delaware during 1957. The District of Columbia has again been excluded for the reason cited above.

Despite the continued slight decrease in year-end resident patient population in public mental hospitals in the United States the number of full time employees has been increasing. The rate of this increase, however, appears to have dropped slightly from 5.9% in 1956-57 to 4% in 1957-58. Forty states and the District of Columbia had increases in the number of full-time personnel in

1958.

The per patient expenditures for maintenance in public mental hospitals in the United States exhibited the same rate of increase (11.5%) between 1957-58 as between 1956-57. In 1958 there was a considerable variation among states in per patient expenditures, ranging from a low of \$771.90 in Mississippi to a high of \$2254.16 in the District of Columbia.

Any interpretation of differences noted among states in Tables 1 and 2 with respect to movement, personnel or expenditure data, should be made with caution. Some partial explanation of the differences will be provided at a later time by data which will give breakdowns of admissions and resident patients by age, sex, and diagnosis and which will furnish detailed administrative data such as types of personnel employed and kinds of expenditures made. Other additional factors, however, must be taken into account to fully explain the observed interstate differences. Information on such items as policies and laws effecting admission and release of patients, extent of other community facilities for the treatment of the mentally ill, and extent and effectiveness of therapeutic programs, etc. are all necessary for a fuller understanding of these interstate variations.

TABLE 3

MOVEMENT OF PATIENT POPULATION IN PUBLIC MENTAL HOSPITALS; UNITED STATES 1956-1958

ITEM	1956 ¹	1957 ¹	1958 ¹	Percent	change
LLEN	1906	1957	1958-	1956-1957	1957-1958
All admissions	185,597	194,497	210,117	4.8	8.0
First admissions	125,539 60,058	129,278 65,219	138,612 71,505	3.0 8.6	7.2 9.6
Discharges	133,208	145,116	154,945	8.9	6.8
Deaths in hospital	48,236	46,848	51,391	-2.9	9.7
Resident patients at end of year	551,390	548,626	545,465	-0."	-0.6
Personnel employed full time at end of year	153,715	162,753	169,259	5.9	4.0
Maintenance expenditures					
Total	663,280,934.00	731,875,462.00	812,836,068.00	10.3	11.1
Per patient	1,194.88	1,332.31	1,485.51	11.5	11.5

¹ Based on provisional data. Subject to revision prior to final publication.

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H-3 (57-58)

OFFICIAL BUSINESS

DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
BETHESDA 14, MARYLAND

POSTAGE AND FEES PAID NATIONAL INSTITUTES OF HEALTH

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

January 1960

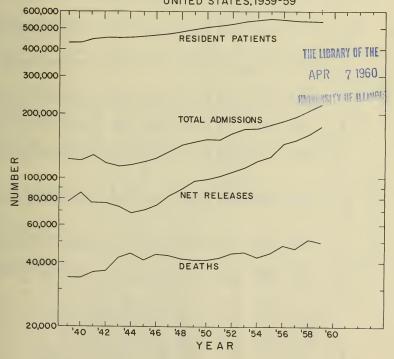
Bethesda 14, Maryland

Series MHB-H-4

PROVISIONAL DATA ON PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL

1958 and 1959

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, PUBLIC MENTAL HOSPITALS, UNITED STATES, 1939-'59



PROVISIONAL PATICAT MOVEMENT, PERSONNEL, AND FINANCIAL DATA BY STATE; UNITED STATES, 1958^{1} TABLE 1

	A	tur es	Per Patient	Treatment	\$1,063.38	656.49 971.48 773.23 1,148.00 1,308.92	1,359.31 1,131.46 1,799.86 982.17 675.90	879.09 953.50 1,194.20 925.97 1,479.18	715.62 698.15 1,036.12 1,090.99 1,211.95	1,489.62 972.41 460.32 1,085.93 840.49	1,141.23 942.23 1,174.14 1,221.77 1,043.34	1,232,28 94,8.87 722.08 995,96 808.23	863.41 1,156.26 1,103.58 634.76 759.88	588.44 781.34 1,045.29 1,143.47 789.52	1,145.95
	PURSONNEL AND FINANCIAL DATA	Maintenance Expenditur	Don Donk house	Patient	\$1,475.26	899.24 1,547.21 1,186.93 1,817.34 1,702.83	2,073.24 1,537.43 2,254.16 1,228.33 897.06	1,631.89 1,337.50 1,623.44 1,517.92 2,243.15	1,045.62 1,979.16 1,973.69 1,625.33 1,743.55	1,908.85 1,399.94 738.91 1,308.72 1,335.66	1,675,58 1,560.81 1,640.99 1,699.62 1,732.68	1,549.50 1,453.20 1,232.02 1,426.92 1,091.28	1,412.55 1,408.35 1,627.70 881.22	894,32 1,177,32 1,543,97 1,695,48 1,125,66	1,561.42 832.41
	PLESONNEL AD	Mair	E-4-E	Amount	\$805,861,786	6,597,708 2,480,182 5,845,616 66,135,866 9,918,993	18,004,008 2,183,722 15,700,201 10,688,923 10,538,668	1,760,812 49,346,571 17,953,625 7,574,417 9,454,896	7,867,486 8,111,096 4,072,987 15,102,601 38,044,182	41,170,117 15,487,578 3,438,627 15,240,008 2,337,400	7,568,616 767,918 4,255,087 37,155,298 1,644,311	147,743,515 13,974,010 2,201,622 39,825,445 8,210,773	7,155,964 54,946,680 5,548,813 5,596,645 1,974,175	7,284,258 18,793,612 1,987,092 2,065,099 12,408,112	10,689,453
		Total	Personnel Personnel	Year	169,438	1,539 548 11,779 2,089	3,835 501 2,762 2,787 2,157	4,041 1,998 2,199	2,076 2,337 2,337 3,198 8,023	6,711 2,967 1,461 3,875 518	2,087 139 927 8,318 4,35	29,992 2,994 543 8,168 2,308	1,96	1,675 4,306 4,39 416 2,761	2,206
		paily	ratient	Rate3	318,7	230.4 143.4 281.6 259.7 347.3	376.9 318.4 866.3 200.1	164.0 375.0 241.8 177.0 202.7	238.9 269.0 317.1 320.5 453.4	274.8 330.8 239.5 274.6 256.6	312.8 190.7 449.4 383.7 116.3	589.2 215.1 275.3 299.4 334.4	286.5 352.1 405.4 270.7 241.0	236.0 173.4 149.5 329.2 291.5	253.0
		Average	Population	Number	546,337	7,337 1,603 4,925 36,419 5,825	8,584 1,420 6,965 8,702 11,748	1,079 36,892 11,059 4,990 4,215	7,247 8,277 2,965 9,292 21,820	21,568 11,149 5,195 11,645 1,750	4,517 2,593 21,861 21,861	95,349 9,616 1,787 27,910 7,524	5,066 39,015 3,409 6,351 1,668	8,145 15,963 1,287 1,218 11,023	6,846
		:	Patients	Year	544,863	7,398 1,608 4,986 36,777 5,866	8,880 1,424 6,994 8,849 11,797	1,066 36,437 10,991 4,842 4,035	7,091 8,299 2,943 9,309 21,670	21,915 11,068 5,158 11,618	4,419 508 2,577 21,828 944	94,611 9,584 1,721 27,995 7,376	38,309 3,422 5,418 6,418	8,199 16,162 1,235 1,180 11,067	6,871
	MT DATA		Deaths	Hospital	51,294	554 184 384 2,881	1,988	715 7173 7173 7173	744 552 263 263 910 2,257	1,555	44.7 236 2,707 7,707	9,524 799 161 2,405 629	3,432	1,221	ãŭ
-	PATIENT MOVEMENT DATA		98.8934	Rate	296.5	285.9 474.7 444.7 494.1 192.6	376.2 488.0 172.6 150.7 225.6	709.0 303.7 280.4 565.9 489.9	435.9 334.3 244.5 390.0 342.1	193.2 326.9 543.2 146.8 480.0	391.0 550.8 291.9 268.8 585.9	165.3 451.7 653.0 343.5 286.3	545.8 148.1 348.5 298.9	427.1 417.8 436.7 361.2 323.1	276.8
	PATIE		Net Releases4	Number	161,972	2,098 761 2,190 17,995 1,122	3,267 693 1,202 1,311 2,650	765 11,203 3,101 2,824 2,065	3,159 2,767 725 3,624 7,464	4,168 3,645 2,822 1,709 840	1,766 271 757 5,876 5,876	15,759 4,344 1,167 9,587 2,154	2,765 5,780 1,188 1,898 742	3,479 6,670 562 440 3,561	1,895
		sfers)	ė	admissions	72,442	898 184 1,015 7,078	1,719 162 620 669 885	339 6,480 1,338 1,516 690	1,735	2,022 2,223 1,098 655 306	2,6% 15% 15%	6,599 1,679 4,10 3,987 999	2,600 636 639 378	1,802 2,745 141 196 1,839	1,033
		Admissions (excluding transfers)	1	Admissions	137,061	1,828	2,804, 355 985 1,936 2,855	8,394 2,741 1,626 1,330	1,918 1,612 636 2,988 6,665	3,689 2,531 1,724 1,724	1,115	17,481 3,379 8,230 8,230 1,548	2,258 5,687 996 1,842 560	2,484	1,455
		dmissions (d	Rate3	122.2	35.6 85.7 151.7 146.5 110.2	196.3 115.9 199.6 59.9 99.8	137.2 151.2 89.2 111.4	120.4 108.7 103.6 156.3	72.8 141.1 143.5 56.1	141.7 131.0 179.9 149.2	148.8 113.1 131.0 131.0	183.5 74.8 194.1 105.8	124.2 89.0 69.2 152.7	91.9
		4	Total	Number	209,503	2,726 958 2,653 20,547 1,948	4,523 1,605 2,605 3,740	14,874 4,079 3,442 2,020	3,653 3,344 969 4,532 9,299	5,711 3,113 2,379 1,019	2,046 338 1,038 8,501 623	24,080 5,058 1,235 12,217 2,547	3,244,1,632,24,481	4,286 8,196 596 596 4,696	2,488
				State	United States	Arizona	Connectiont Delaward2 District of Columbia Florida Georgia	Idaho	Kentucky Louisiana Maine Mayanad Masyandy Masachusetts	Minasota8 Minasota8 Missatph Missatph Missatph Missath	Nebraska New Hampshire	North Carolina————————————————————————————————————	Oregon Pennsylvania Rhode Islanda South Carolina South Dakota	Tennesseeld	Washington
L				_1											

\$1,056.58	1,135.32 1,352.68 1,121.27 904.96	1,207.77 1,456.70 1,086.63	,122.08 574.88 ,096.85
			í í
\$1,458.62	1,792.77 1,590.97 1,499.25 1,443.45	1,700.44 1,843.95 1,526.29 1,548.01	1,360.69 850.81 1,513.02
\$795,492,428	65,151,972 9,080,512 16,359,364 7,107,568	36,904,637 39,735,771 6,767,552 147,523,836	52,943,008 6,888,159 22,566,664
167,176	11,546 1,933 3,632 1,890	7,761 6,460 1,369 29,894	11,430
318.2	259.2 342.5 238.7 174.6	450.9 273.8 307.1 588.8	351.1 234.6 379.3
245,460	36,347 5,744 10,919 4,924	21,703 21,491 4,434 95,299	34,909 8,096 14,915
544,008	36,680 5,799 10,857 4,800	21,545 21,852 4,340 94,551	18,208 8,151 14,914
51,283	2,880 588 .941 514	1,553	3,432 701
288.9	490.7 56.8 255.7 515.8	311.2 180.2 325.7 161.8	142.5 386.6 267.0
157,603	17,835 326 2,792 2,540	6,755 3,873 44,4 544,2	5,543 3,130 3,982
17,351	7,013	2,436	2,512 1,687 2,265
134,043	13,355 830 2,451 1,377	6,156 3,482 302 17,246	5,576 2,255 3,325
119.8	145.2 63.4 81.7 101.1	178.5 69.0 113.6 146.6	73.0
205,399	20,363	8,592 5,415 1,713 23,723	8,088 3,942 5,590
United States	California————————————————————————————————————	Massachusetts	Pennsylvania
	205,399 119.8 134,043 71,351 157,663 288.9 51,283 544,008 545,460 318.2 157,176 \$1955,4924,428 8	2055,399 119.4 1134,043 77.151 157,603 288.9 541,003 544,000 545,460 136.3176 4795,922,203 57.1016 13.	205,399 119.8 134,043 77,151 157,653 884.9 544,008 545,460 138.2 1157,176 4795,424.8 8 8 66,145,409 138.2 1157,176 4795,424.8 8 15,145 138.2 138

- I These data were taken from the 1958 ceneus of patients in mental institutions. Exceptions are shown in footnotes 7-10.
- 2 Public mental hospitals include the etate, county and psychopathic hospitals.
- 3 Admission and average dally resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Censue, <u>Ourrent Population Reports</u>, Series P-25, No. 189.
- 4 Net releases are defined as the net number of patients released to the community in any one year. Net release rates are per 1,000 average daily resident patient population.
- 5 per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- 6 per patient under treatment maintenance expenditures are based on the sum of resident patients at beginning of year plus all admissions (excluding transfers).

- 7 Maryland: 1958 Special Survey data were used as estimates for one state hospital. Minnesota: the maintenance expenditure was not available for one state hospital. The number of average daily resident patients for this hospital aver exclused from the denominator in computing expenditures per resident patient. Hosewar, denominator in computing applicants for this hospital from the soundant the state of this hospital from the modulation of the expenditure per patient under presented fruits.
 - 9 Oklahoma: 1958 Special Survey data were used as estimates for all Oklahoma public mental hospitals.
- 10 Tennessee: 1958 Special Survey figure for expenditures was used as an estimate for one county hospital.
- 11 This eection of the table includes only states which have psychopathic hospitals.
- 12 hata for the Governor Bacon Health Center are not included in the data for Delasare. However, to make data for Delasares are comparable with those of the other States from Economics Bacen Health Center (classified as a psychopathic Depthial) Health Statistical Annual Charles (classified as a psychopathic Depthial) Health Statistics, has as follows: Average Daily Resident
 Patient Population...... 1,762 Total Admissions (excluding transfers)

THELS 2 PROUSSIONLE PATIENT MOVEMENT, PERSONNES, AND FINANCIAL DATA BY STATE: UNITED STATES, 1999³. TOTAL POBLIC MENTAL HOSPITALS².

Г			т												
		Itures	Per Patient	Under Treatment6	\$1,112.31	(87.32 1,003.05 760.26 1,229.51 1,252.37	1,408.00 1,121.71 2,002.82 983.44 704.15	912.58 1,012.05 1,205.65 1,021.57 1,575.57	800,38 720,14 1,079,04 1,121,60 1,261,95	1,489.36 1,019.93 507.65 1,149.46 834.18	1,232,91 980,75 1,221,33 1,267,10 1,072,05	1,315.50 921.88 795.40 1,030.76	843.60 1,210.45 1,075.75 660.30	595.79 766.00 1,331.39 1,226.17 807.34	1,289.11 643.50 1,201.20 385.65
PERSONNEL AND FINANCIAL DATA	FINANCIAL DATA	Maintenance Expenditures		Per Resident Patient5	\$1,577.54	956.05 1,650.52 1,219.24 1,968.35 1,772.31	2,221,18 1,577.76 2,496.92 1,283.83	1,692.13 1,428.13 1,674.47 1,894.18 2,466.01	1,284.61 1,040.42 1,461.24 1,727.38 1,870.23	1,895.54 1,498.72 828.04 1,423.04 1,376.08	1,868.39 1,624.08 1,734.07 1,805.93 1,879.51	1,700.70 1,502.11 1,436.49 1,502.58 1,091.28	1,435.67 1,481.65 1,631.22 926.29 1,237.95	943.37 1,229.53 2,048.28 1,869.77 1,134.28	1,777.97
	PERSONNEL AND	Ma		Total	\$854,354,503	7,047,049 2,677,139 6,036,436 71,452,979 10,655,135	19,164,312 2,305,108 17,226,242 11,537,770 10,989,623	1,741,203 51,615,571 18,456,053 8,535,195 9,708,663	8,930,608 8,765,541 4,294,580 15,700,137 40,142,717	41,125,564 16,157,722 4,247,017 16,346,514 2,340,712	8,112,540 859,139 4,477,379 39,100,100 1,766,742	158,768,744 14,538,922 2,488,000 42,548,693 8,210,773	7,237,234 57,289,290 5,537,986 5,948,662 2,067,377	7,787,513 19,479,458 2,396,493 2,140,890 12,550,839	12,115,100 4,961,393 25,926,740 844,906
		Total	Full-time Personnel	at End of Year	174,218	1,636 1,429 11,916 2,129	3,705 570 2,849 2,889 2,214	417 9,946 4,132 1,887 2,274	2,133 2,461 998 3,279 8,198	6,725 2,946 1,489 3,917 575	2,191 139 975 8,492 465	31,761 3,042 516 8,692 2,308	11, 529 11, 529 1, 539 1, 539 535	1,745 4,543 435 452 3,040	2,395 1,197 4,189 211
		hily	Patient	Rate3	310.7	232.7 133.8 285.7 253.6 363.5	358.9 327.6 616.2 192.3 315.8	156.1 355.8 238.1 150.5 187.1	225.7 268.1 315.3 305.9 437.7	273.0 321.9 237.1 272.7 249.8	301.3 194.5 443.6 368.1 110.1	567.6 217.4 271.0 292.6 335.7	286.4 342.1 400.4 271.8 245.6	2/2.6 169.5 133.6 308.6 285.4	246.3 275.5 373.8 198.4
		Average D	Resident Patient Population	Number	541,717	7,371	8,628 1,461 6,899 8,987 11,897	36,142 11,029 11,022 4,506 3,937	6,952 8,425 2,939 9,089 21,464	21,696 10,925 5,129 11,487	4,342 529 2,582 21,651	93,355	38,666 3,395 6,422 1,570	8,255 15,843 1,170 1,145 11,065	6,814 5,411 14,966 631
			Resident	End of Year	542,721	7,430 1,670 4,948 37,274 5,943	8,602 1,474 6,980 9,164 11,922	970 35,835 10,943 4,490 3,798	6,914 8,548 2,920 8,875 22,200	21,762 10,648 5,216 11,748 1,673	4,228 553 2,578 21,457 898	92,650 9,727 1,696 28,671 7,376	5,017 39,035 3,419 6,509 1,694	8,404 15,857 1,128 1,133 11,095	6,677 5,458 14,896 648
	т рата		Deaths	in Hospital	079"67	516 193 404 2,964 643	7128 1179 627 707 850*T	3,836 998 519 519 314	64,6 500 302 302 894, 2,268	1,406	3% 337 378 2,765 2,765 84,	9,276 846 159 2,382 629	3,253	1,34.2 90 131 972	541 445 1,507 83
	PATESNT MOVEMENT DATA		383634	Rate	324.4	317.1 496.9 522.7 492.5 319.7	457.9 319.0 165.5 217.8 236.3	763.8 313.5 305.7 742.6 520.7	517.5 370.8 257.9 465.3 342.1	204.9 371.9 561.5 150.3	450.5 540.6 300.9 306.4 708.5	201.0 537.0 735.0 361.1 254.9	598.5 130.4 379.7 308.2 442.5	430.7 519.5 497.4 421.0	319.9
	PATIS		Net Releases4	Number	175,727	2,337 806 2,588 17,877 1,922	3,951 466 1,142 1,957 2,811	786 11,330 3,369 3,346 2,050	3,598 3,124 7,58 4,229 7,342	4,445 4,063 2,880 1,727	1,956 286 777 6,634 666	18,765 5,198 1,273 10,226 1,918	3,017 5,041 1,239 1,979	3,968 3,968 3,231 432 432 3,479	2,180 1,807 5,181 223
		sfers)		Re- admissions	80,344	938 272 272 7,350 540	2,072 205 567 874 1,053	6,609 1,425 1,911 769	2,050 1,850 358 1,794 3,058	1,942 2,254 1,159 778 288	1,067 1,067 3,043 5,043	7,813 2,043 397 4,473	1,298 2,796 652 588 394	2,141 3,839 1155 11,866	1,120 703 2,485 146
		Admissions (excluding transfers)		First	142,881	1,917 789 1,726 13,988 2,102	2,659	7,955 2,892 1,602 1,358	2,017 2,023 679 2,895 7,082	3,756 2,520 2,049 1,825	1,094, 732, 739, 5,937, 646	18,267 4,144 1,010 8,811 1,548	2,23,234,1,004,1,903	2,2 2,4 2,4 2,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3	1,560
		imissions (-	Rate3	128.0	90.1 87.5 170.5 149.1 159.7	196.8 141.5 123.2 61.7	127.8 143.4 93.2 125.2	132.0 123.2 111.3 157.8	71.7 148.3 61.8 158.0	150.0 135.3 187.1 153.5 82.4	158.6 139.0 220.2 137.2	203.6 79.8 203.5 109.6 134.0	145.2 99.2 64.5 152.6 115.9	91.4 115.2 165.6 102.5
		AK	Total	Number	223,225	2,855 1,061 2,954 21,338 2,642	4,731 631 1,607 2,883 3,810	842 14,564 4,317 3,513	4,067 3,873 1,037 4,689 10,140	5,698 4,774 3,208 2,603 1,076	2,161 368 1,089 9,030	26,080 6,187 13,284 2,547	3,583 9,020 1,726 2,591	4, 972 9, 268 565 565 566 4,479	2,527 2,263 6,631 326
				State	United States	Arisona	Connecticut Delaware 14 Delaware 14 District of Columbia7 Florida Georgia	Idaho Illihoda Indiana Iowa 8 Kanasa	Kentucky- Louisiana Maine Marjandy- Massachusetts-	Michigan ¹⁰ Minnsota ¹¹ Misisippi Missouri Mortana	Nebraska	New York————————————————————————————————————	Oregon—Penaylvania	Ternessee	Washington———————————————————————————————————
l	_		_												

	\$1,104.54	1,215.78	1,251.94 1,450.82 1,189.58 1,318.02	1,168.05 581.18 1,195.05
	\$1,558.70	1,940.89	1,820.69 1,826.03 1,709.27 1,699.19	1,426.31 898.23 1,701.29
	\$842,689,351	70,298,914, 9,651,605 16,720,613 8,036,181	38,862,613 39,440,455 7,269,511 158,539,130	55,008,326 7,369,970 25,390,000
	171,732	11,688 1,961 3,754 1,769	7,928 6,441 1,916 31,662	11,100
	310.2	253.0 358.5 234.3 158.7	435.3 271.8 295.1 567.3	341.2 241.1 372.7
HOSPITALS	540,781	36,220 5,930 10,849 4,454	21,345 21,599 4,253 93,303	38,567 8,205 14,924
HOSPITALS EXCLUDING PSYCHOPATHIC HOSPITALS	541,776	37,171 5,874 10,769 4,438	22,068 21,675 4,144 92,593	38,932 8,358 14,855
EXCLUDING	49,632	2,962 642 994 519	2,267 1,406 394 9,276	3,253
HOSPITALS	317.2	488.4 191.1 276.2 668.2	314.2 189.9 369.9 197.4	127.3 441.7 327.3
VBLIC MENTAL H	171,524	17,689	6,707 4,101 1,573 18,417	4,909 3,624 4,884
PUB	79,184	7,279	2,899 1,828 918 7,692	2,725 2,046 2,471
	139,740	13,863 1,526 2,556 1,333	6,598 3,505 853 18,043	6,161 2,484 3,861
	125.6	147.7 111.9 84.3 111.6	193.7 67.1 122.9 156.5	78.6 133.1 158.1
	218,924	21,142 1,850 3,902 3,133	9,497 5,333 1,771 25,735	8,886 4,530 6,332
	United States	California————————————————————————————————————	Massachusetts Michiganlo Nebraska New York	Pennsylvanie

1 These data were taken from the 1959 Special Survey of the public mental hospitale. Exceptions are shown in footnotes 7-12.

2 Public mental hospitals include the state, county and peychopathic hospitals.

3 Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Census, <u>Ourrent Population Reports</u>, Series P-25, No. 210.

4 Net releases are defined as the net number of patients released to the community in any one year. Net release rates are per 1,000 average daily resident patient population.

5 Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures. 6 Per patient under treatment maintenance expenditures are based on the sum of resident patients at beginning of year plus all admissions (excluding trensfers).

7 District of Columbia: rates per 100,000 civilian population are based on residents of the District of Columbia only.

8 Iowa: 1958 expenditure figure was used as an estimate for one state hospital.

9 Maryland: 1958 expenditure, presonnel, and average daily resident patient population data were under a contained sor one ested bondial. Also, 1958 data on first and readmissions to this hospital were used as a basis for pro-rating the 1959 total admissions between these two categories.

10 Michigan: 1958 data on first and readmissions to the Michigan public mental hospitals were as a basis for pro-rating the 1959 total admissions between these the categories.

Il Mirrosota: the maintenance expenditure was not available for one state hospital. The remover of average daily residence politics for this hospital were excluded. The said denominator in computing expenditures per saident patient, in Second the said and the said and the said and denominator prints to the expenditure per patient under transmit ratio.

12 Oklahoma: 1958 Special Survey data were used as setimates for all Oklahoma public mental hospitals.

13 This section of the table includes only states which have peychopathic hospitals.

M pata for the Governor Bacon Health Center are not included in the data for Delaware. However, to make data for Delaware, somer settle forefree (Classified Delaware incre comparable with those of the chert Stars, she data for the Covernor Boom Health owner (Classified as a psychogathic Departal) should be included: Totals for Delaware, including this Tealthy, are as follows:

1,763 764 83,092,150 \$1,773,91 \$1,155,94
Average Daily Resident 1,769 Person Propulation 1,769 Rainformer Expenditures 15,092,199 Rainformer Resident Parisint 1,759 per Patient Under Frantemin. \$1,155
964 677 287 719 205 1,751
Total Admissions (excluding transfers) First Admissions Readmissions First Manuals on First Resident Fatteries at Did of Year.

The 1958 data were taken from the annual census of patients in mental institutions. Exceptions are shown in footnotes to Table 1. The 1959 data were taken from a special survey of the public mental hospitals and exceptions are given in footnotes to Table 2.

DEFINITIONS

Public Mental Hospitals: Includes state and county hospitals as well as psychopathic hospitals (short term, intensive treatment, teaching or research hospitals).

Net Releases: The net number of patients released to the community in any one year. This quantity is the number of placements on extramural care plus direct discharges less the number of returns from extramural care. National data on placements and returns from extramural care are not available but net releases may be determined from the usual movement data as:

All Admis-Resident Resident sions Deaths Patients
Excluding in End of
Transfers Hospital Year Net Beginning +

of Year

Discharges do not necessarily affect the size of the resident patient population since many occur while patients are on extramural care. Thus, the concept of "net releases" has been used since it takes into account releases from and returns to the hospital.

Expenditure Ratios: The expenditure per resident patient (average daily) has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not take turnover of patients into account. Thus, the ratio of expenditures to "patients under treatment" is also shown. The actual number of patients under treatment during the year is equal to the number of resident patients at beginning of year plus all admissions and all returns from extramural care. Since data on returns from extramural care are not available nationally, the number of patients at beginning of year plus all admissions (excluding transfers) has been used as the closest estimate of "patients under treatment".

TRENDS

The year-end resident patient population of the public mental hospitals declined by about 2,100 patients between 1958 and 1959, a decrease of 0.4 percent. This downward trend started in 1956 with a decline of 1.3 percent during that year and has continued consistently since that time. (See graph).

Total admissions increased by 6.7 percent between 1958 and 1959 which was nearly as great as the 7.7 percent increase between 1957 and 1958 (see Table 3). There has been a steady increase in admissions since the mid-1940's. The number of deaths has fluctuated over time. There was a 3.3 percent decrease between 1958 and 1959 while between 1957 and 1958 there was a 9.5 percent increase.

The trend in number of net releases has been upward since the mid-1940's. This trend has continued in 1959 with an increase of 8.4 percent over the number in 1958. Thus, the drop in the number of resident patients must be interpreted in terms of the combined effects of admissions, net releases and deaths.

The number of full-time personnel has been increasing, although the percentage of increase dropped from 4.1 percent between 1957 and 1958 to 2.8 percent between 1958 and 1959. Expenditures have also increased but showed a similar pattern (i.e., 10.1 percent increase in 1957-58 and 6.0 percent increase in 1958-59).

INTERSTATE VARIATION

Tables 1 and 2 indicate that there is considerable variation among states in patient movement, personnel, and financial data. Actual numbers cannot be compared among states since they do not take into account differences in size of population. Therefore, the number of admissions and the average daily resident patient population per 100,000 civilian population are given. Similarly, the number of net releases has been converted into a rate by dividing it by the average daily resident patient population. This denominator is an estimate of the number of person-years of exposure to the 'risk' of release. Both series of expenditure ratios show considerable variation among states, the expenditure per patient under treatment in 1959 ranging from \$500-600 up to \$1400-1500 (and \$2003 for the District of Columbia).

Any interpretation of interstate differences should be made with caution. More detailed breakdowns of movement categories by age, sex, and diagnosis as well as more detail on personnel and expenditures will be available in Patients in Mental Institutions (National Institute of Mental Health, U.S.P.H.S.). This detail will provide partial explanations of the gross differences noted in the above tables. In addition, other factors such as information on policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc. must be evaluated to determine the extent of their influence on interstate variation.

TABLE 3

PROVISIONAL DATA ON RECENT TRENDS OF PATIENT MOVEMENT, PERSONNEL, AND EXPENDITURES, PUBLIC MENTAL HOSPITALS: UNITED STATES, 1957-1959

U.S. GOVERNMENT PRINTING OFFICE: 1960 O -541998

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH BETHESDA 14, MARYLAND

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

January 1961

Bethesda 14, Maryland

Series MHB-H-5

HE I

PROVISIONAL DATA ON PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL

1959 and 1960

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, PUBLIC MENTAL HOSPITALS,

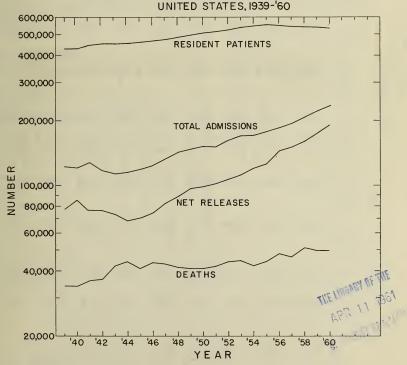


TABLE 1
PROVISIONAL PATIENT MOVEMENT, PERSONNEL, AND PINANCIAL DATA BY STATE: UNITED STATES, 1963¹

TOTAL PUBLIC MENTAL HOSPITALS

L DATA	itures	Per Patient Under Treatment	\$1,106.43	680.60 1,003.05 727.97 1,161.67 1,314.70	1,408.00 1,155.94 2,042.48 930.64 666.44	898.74 1,012.05 1,218.38 1,012.71 1,575.57	800.38 721.62 1,092.89 1,129.46 1,241.60	1,527.75 1,015.82 1,139.19 1,139.54 834.18	1,232.91 980.74 1,211.88 1,280.33 1,072.05	1,318.28 904.94 779.95 1,023.08	854.10 1,217.76 1,075.75 656.42 800.90	596.85 810.28 1,288.93 1,226.17	1,197.75 615.95 1,146.79 1,150.25
PERSONNEL AND FINANCIAL DATA	Maintenance Expenditures	Per Resident	\$1,567.39	946.71 1,650.52 1,167.45 1,866.21 1,732.82	2,221.18 1,753.91 2,496.92 1,216.04 874.26	1,668.48 1,428.13 1,674.47 1,786.15 2,466.01	1,284.61 1,040.42 1,469.78 1,718.59 1,839.30	1,942.43 1,492.69 801.19 1,410.47 1,376.08	1,868.39 1,624.06 1,720.68 1,824.72 1,879.51	1,704.11 1,471.61 1,408.59 1,491.35 1,192.58	1,454.06 1,490.59 1,631.22 920.84 1,233.97	943.37 1,300.61 1,982.97 1,869.77	1,651.79 887.77 1,649.54 1,739.05
PERSONN	Mair	Total Amount	\$849,493,595	6,978,206 2,677,139 5,780,054 67,745,192 10,417,694	19,164,312 3,092,150 17,226,242 10,928,537 10,401,053	1,714,789 51,615,571 18,456,053 8,452,045 9,708,663	8,930,608 8,765,541 4,338,791 15,630,608 39,495,200	42,185,802 16,092,646 4,109,317 16,202,040 2,340,712	8,112,540 859,130 4,442,750 39,507,120 1,766,742	159, 104, 572 14, 243, 721 2, 439, 673 42, 230, 649 8, 747, 603	7,329,915 57,635,196 5,537,986 5,913,662 2,060,725	20,605,512 20,320,071 2,320,071 2,140,890 12,409,071	11,255,284 4,809,920 24,687,044 1,097,341
	Total Enll-time	Personnel at End of Year	174,635	1,647 587 1,406 11,790 2,127	3,543 726 2,849 2,849	416 9,947 4,133 2,120 2,188	1,980 2,461 998 3,280 8,190	7,020 2,946 1,476 3,921 565	2,156 139 998 8,388 478	31,730 3,010 516 8,694 2,357	1,479 11,843 1,121 1,544 572	1,741 4,541 439 3,040	2,395 1,121 4,304 211
	Daily	Sate ³	310.8	232.7 133.8 285.7 253.6 363.5	358.9 395.3 842.4 192.3 315.8	156.1 355.8 238.3 168.6 187.1	225.7 268.1 316.7 306.1 437.9	273.3 321.9 237.1 272.7 249.8	301.3 194.5 443.6 368.1 110.1	567.7 217.4 271.0 292.6 327.3	286.4 342.1 400.4 271.8 245.6	237.0 169.5 133.6 308.6 286.4	246.3 275.9 373.8 198.4
	Average Daily	Population	542,135	7,371 1,622 4,951 36,301 6,012	8,628 1,763 6,899 8,987 11,897	1,029 36,142 11,034 4,732 3,937	6,952 8,425 2,952 9,095 21,473	21,718 10,925 5,129 11,487 1,701	4,342 529 2,582 21,651	93,365 9,679 1,732 28,317 7,335	5,041 38,666 3,395 6,422 1,670	8,255 15,843 1,170 1,145 11,065	6,814 5,418 14,966 631
	Doctident	Patients End of Year	541,883	7,400 1,670 4,948 37,290 5,943	8,631 1,751 6,980 9,164 11,922	970 35,835 10,943 4,488 3,798	6,914 8,530 2,920 8,875 21,448	21,762 10,848 5,216 11,447 1,673	4,228 553 2,578 21,457 898	92,655 9,779 1,695 28,670 7,276	4,993 39,035 3,419 6,604 1,694	8,288 15,857 1,128 1,133 11,098	6,677 5,458 14,896 648
PATIENT MOVEMENT DATA		Deaths in Hospital	49,647	516 193 404 2,972 643	1,058 205 466 608 874	3,836 996 520 314	646 501 302 885 2,268	1,404 1,131 267 740 207	396 37 311 2,781 84	9,273 846 159 2,380 541	571 3,253 440 521 140	699 1,342 90 131 972	541 442 1,506 83
IENT MOV	4 occorded	Rate	325.4	317.1 496.9 522.7 497.4 222.6	454.6 407.8 143.2 219.3 236.3	763.8 313.5 305.3 705.4 520.7	517.5 369.9 253.4 448.5 376.9	204.8 371.9 562.1 176.8 544.4	450.5 540.6 300.9 305.7 708.5	201.0 528.5 735.6 361.2 282.1	598.7 130.4 379.7 293.4 442.5	495.1 519.5 497.4 421.0 314.1	319.8 352.3 342.4 353.4
PAT	oled toN	Number	176,411	2,337 806 2,588 18,055 1,338	3,922 719 988 1,971 2,811	786 11,330 3,369 3,338 2,050	3,598 3,116 748 4,079 8,094	4,447 4,063 2,883 2,031 926	1,956 286 777 6,619 666	18,763 5,115 1,274 10,228 2,069	3,018 5,041 1,289 1,884 739	4,087 8,231 582 482 3,476	2,179 1,909 5,125 223
	sfers)	Re-	84,929	938 272 1,228 11,791 497	2,086 287 411 874 1,053	283 6,609 1,425 1,911 770	2,050 1,761 3,43 1,637 3,058	2,275 2,256 1,159 778 288	1,067 46 310 3,063 58	7,849 2,012 397 4,563	1,298 2,786 652 686 394	2,144 3,839 155 195 1,866	1,120 702 2,467 146
	Admissions (excluding transfers)	First	137,862	1,917 789 1,726 9,749 1,561	2,645 1,029 2,020 2,757	7,955 2,892 1,593	2,017 2,087 684 2,893 7,082	3,423 2,518 2,049 1,822 788	1,094 322 779 5,966 646	18,231 4,144 1,010 8,720 1,436	2,288 6,234 1,074 1,905	2,731 5,429 410 371 2,613	1,406 1,660 4,107 180
	ssions (e	Rate3	127.7	90.1 87.5 170.5 150.5	196.8 216.1 175.8 61.9	127.8 143.4 93.2 124.8 101.1	132.0 122.4 110.2 152.5 206.8	71.7 140.7 148.3 61.7 158.0	150.0 135.3 187.1 153.5 82.4	158.6 138.3 220.2 137.2	203.8 79.8 203.5 109.6 134.0	140.0 99.2 64.5 152.6	91.3 120.3 164.2 102.5
	Admi	Number	222,791	2,855 1,061 2,954 21,540 2,058	4,731 964 1,440 2,894 3,810	14,564 4,317 3,504 2,127	4,067 3,848 1,027 4,530 10,140	5,698 4,774 3,208 2,600 1,076	2,161 368 1,089 9,029 704	26,080 6,156 1,407 13,283 2,510	3,586 9,020 1,726 2,591	4,875 9,268 565 4,479	2,526 2,362 6,574 326
		State	United States	Arizona	Connecticut	Idaho	Louistana	Michigan	Nebraska	North Carolinal0 North Dakota Ohio Oklahomall	Oregon Pennsylvania Rhode Island South Carolina	Tennessee12	Washington

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United States	218,164	125.1	134,526	83,638	196'121	317.9	49,549	540,662	540,896	310.1	172,028	837,269,550	1,548.38	1,098.76
California	21,344	149.1 76.5 141.5	9,655 985 426	11,689 281 205	17,866 549 466	493.3 92.6 319.0	2,970 642 115	37,188 5,874 1,474	36,220 5,930 1,461	253.0 358.5 327.6	11,607	66,647,604 9,541,943 2,305,108	1,840.08	1,148.62
Indiana'	3,902	84.3	2,556	1,346	2,996	275.8	994	10,769	10,861	234.6	3,755	16,720,613	1,541.21	1,145,33
Massachusetts	9,497	193.7	1,294	2,899	7,459	349.3	2,267	21,316	21,354	166.7	1,996	7,953,031	1,699.37	1,003.66
Michigan	1,771	67.1	3,190	2,143	4,103	189.8 369.9	1,404	21,678	21,621	295.1	6,736	40,482,459 7,269,511	1,872.37	1,489.15
New. York	25,735 8,886 4,533	156.5 78.6 130.1	18,007 6,161 2,484	7,728 2,725 2,049	18,415 4,909 3,743	197.3 127.3 456.2	9,273 3,253 699	92,598 38,932 8,242	93,312 38,567 8,205	567.3 341.2 235.6	31,631	158,873,225 55,354,232 7,369,970	1,702.60	1,320.80
Wisconsin	6,282	156.9	3,829	2,453	4,835	324.0	1,506	14,855	14,924	372.7	4,220	24,168,811	1,619.46	1,140.25

- 1 These data were taken from the 1959 census of patients in mental institutions
- 2 public mental hospitals include the state, county and psychopathic hospitals.
- 3 Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 210.
- 4 Net releases are defined as the net number of patients released to the community in any one year. Net release rates are per 1,000 average daily resident patient
- resident patients at beginning of year plus all admissions (excluding transfers) 6 per patient under treatment maintenance expenditures are based on the sum of

7 Indiana: One hospital did not report maintenance expenditure. Therefore, the ratios of maintenance expenditure por resident patient and per patient under freatment do not include this hospital.

- Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- Weryland, 1959 Special Survey figures for admissions, net releases, deaths in hospital, and resident patients; and 1959 data for wormig eathly resident patient population, personnel, and expenditures were used as estimates for one hospital.
 - Minnesot: The maintenance expenditure was not available for one state thousand. The embed of warrage all parties parties to this hospital were excluded from the denominator in computing expenditures per estimate partiest. However, it was not possible to exclude the partiests for this hospital from the denominator of the expenditure per partient under treat-
- 10 North Carolina: Data from 1959 Special Survey were used for estimating average abilty resident patient population, personnel, and expenditure for one hospital.
- 1) Oklahoma: Total admissions, deaths, and resident patient figures were taken first the 1959 model Reporting Area monthly movement Feports for first the deatstons and readmissions were apportinged on the basis A warmaging 1958 and 1960 channes and an Area were used as estimates of expenditures; personnel, and werege daily resident patient population.
- 12 Tennessee: The maintenance expenditure figure was not reported by one hospital. Data from the 1959 Special Survey was used to estimate this figure.
- 13 This section of the table includes only states which have psychopathic hospitals.

TABLE 2

PROVISIONAL PATIENT MOVEMENT, PERSONNEL, AND FINANCIAL DATA BY STATE: UNITED STATES, 1960¹

TOTAL PUBLIC MENTAL HOSPITALS²

68	ient nt6	37	77 43 23	85000								
nditur	Per Patient Under Treatment ⁶	\$1,194.37	719.77 2,097.09 1,039.43 812.77 1,239.23	1,351.58 1,378.23 1,063.59 2,077.30 933.50	697.31 1,209.36 1,151.05 1,395.71 1,177.79	1,640.91 799.00 780.47 1,201.29 1,198.93	1,275.53 1,576.48 1,106.77 507.19 989.07	904.71 1,350.83 1,059.44 1,224.12 1,300.08	1,196.84 1,398.76 887.84 892.14 1,545.83	929.47 936.20 1,294.55 1,134.39 639.72	869.45 631.06 801.93 1,202.54 1,322.07	877.52 1,555.85 684.84 1,203.97 1,157.55
intenance Expe	Per Resident	\$1,721.28	1,002.63 3,033.71 1,824.67 1,289.67 2,009.41	1,825.34 2,293.91 1,739.88 2,639.83 1,301.18	921.79 2,111.27 1,655.22 1,832.61 2,086.32	2,678.57 1,308.13 1,200.56 1,461.80 1,898.71	1,932.35 2,047.86 1,681.40 826.38 1,258.47	1,609.99 2,149.48 1,741.59 1,796.32 1,875.31	2,182,23 1,824,18 1,496.18 1,593.41 2,293.26	1,299.25 1,682.54 1,588.76 1,729.93 919.13	1,386.49 994.48 1,332.74 1,970.28 1,981.38	1,239.63 2,232.82 1,004.28 1,785.30 1,828.57
Ма	Total	\$927,787,593	7,378,358 1,080,000 3,014,354 6,229,105 73,871,790	10,831,551 19,172,510 2,785,540 18,433,947 11,819,936	10,943,539 2,001,488 59,261,934 21,661,481 9,117,236	9,814,287 8,819,382 10,072,709 4,785,934 16,518,798	40,873,057 44,407,764 17,219,205 4,313,683 14,322,696	2,680,641 8,718,285 968,324 4,523,125 40,116,600	1,889,815 168,255,000 14,619,148 2,696,055 65,500,000	9,284,433 8,163,704 62,250,840 5,746,818 6,018,494	2,291,863 7,979,718 20,920,048 2,163,372 2,276,602	13,908,651 14,763,433 5,447,215 26,684,840 1,170,285
Total	Personnel at End of	183,539	1,549 163 620 1,413 12,884	2,163 3,521 687 3,109 3,140	2,418 458 10,517 4,798 2,123	2,171 2,059 2,663 1,045 3,471	8,542 7,109 3,117 1,502 4,048	2,145 150 150 973 8,515	31,971 3,085 522 12,025	2,405 1,397 11,751 1,172 1,561	1,685 4,834 450 455	3,301 2,495 1,225 4,362
Daily	Patient on Rate ³	304.8	226.9 185.4 128.8 271.8 238.6	344.4 331.4 365.5 938.6 186.5	306.6 143.2 356.9 254.0 158.6	225.3 225.4 343.9 285.6	414.5 277.7 305.5 242.2 265.2	249.3 290.5 200.0 421.1 355.5	93.4 551.1 218.3 269.9 294.8	311.2 275.2 346.7 397.4 281.2	244.9 226.2 166.9 123.8 295.1	292.3 236.7 291.6 378.8 195.7
Average	Populatio	539,184	7,359 356 1,652 4,830 36,763	5,934 8,358 1,601 6,983 9,084	11,872 948 35,803 11,820 4,370	3,664 6,742 8,390 3,274 8,700	21,152 21,685 10,415 5,220 11,381	1,665 4,056 556 2,518 21,392	866 92,236 9,771 1,692 28,562	7,146 4,852 39,182 3,322 6,548	1,653 8,024 15,697 1,098 1,149	11,220 6,612 5,424 14,947 640
	Resident Patients End of Year	535,269	7,408 351 1,638 4,749 36,572	5,884 8,173 1,583 7,120 9,097	11,944 917 35,717 11,739 4,187	3,557 6,638 8,459 2,887 8,687	20,666 21,508 10,282 5,232 11,254	1,662 3,907 546 2,509 21,264	866 91,858 9,755 1,672 28,261	7,049 4,583 38,668 3,236 6,543	1,648 7,973 15,872 1,060 1,154	11,335 6,517 5,393 15,052 637
	Deaths in Hospital	49,774	2,991	1,060 205 504 740	941 110 3,681 1,021 476	286 680 544 278 775	2,237 1,374 1,113 302 772	174 433 66 267 2,619	9,082 893 154 2,389	570 585 3,219 450 562	155 746 1,482 100 115	1,039 588 519 1,535
4	Rate	355.6	310.6 410.1 632.0 532.9 545.3	254.0 559.7 519.1 179.0 311.0	236.6 662.4 337.6 233.5 704.3	583.5 551.8 465.2 250.2 496.1	432.2 243.8 399.7 569.2 215.7	676.9 521.2 543.2 365.0	691.7 209.8 595.4 706.9 410.4	331.7 732.1 158.2 415.4 351.7	503.9 489.3 556.3 582.0 394.3	309.8 360.6 376.5 373.1
1	Number	191,755	2,286 1,044 2,574 20,048	1,507 4,678 831 1,250 2,825	2,809 628 12,087 2,760 3,078	2,138 3,720 3,903 4,316	9,141 5,287 4,163 2,971 2,455	1,127 2,114 302 919 6,974	19,349 5,818 1,196 11,722	2,370 3,552 6,200 1,380 2,303	833 3,926 8,733 639 453	3,476 2,384 2,042 5,577
sfers)	Re- admissions	686,96	991 31 242 1,226 12,275	2,537 303 647 1,301	1,074 246 10,549 1,925 1,608	2,074 2,134 1,975	2,558 2,401 1,188	1,125 62 3,407	2,355 387 5,100	1,250 1,382 2,612 678 716	1,979 4,557 202	2,064 735 706 3,271 145
xcluding tran	First	137,853	1,860 115 988 1,490 10,046	1,496 2,743 565 1,247 2,197	2,698 5,101 2,652 1,645	1,256 2,050 2,242 719 2,928	7,163 3,849 2,509 2,101 2,057	1,101 299 748 5,993	18,528 4,332 940 8,602	1,463 2,345 6,440 2,088	2,674 5,674 5,673 457	2,688 2,077 1,790 3,997 218
issions (e	Rate ³	132.7	87.9 76.0 95.9 152.8 144.9	120.2 209.4 198.2 254.6 71.8	97.4 103.5 156.0 98.4 118.0	102.0 137.8 135.3 111.8 161.0	207.6 82.1 144.0 152.6 70.7	193.1 159.5 129.9 186.8 156.2	73.5 165.1 149.4 211.6 141.4	118.2 211.4 80.1 197.0	139.6 131.1 108.7 75.6 151.4	123.8 100.7 134.2 184.2
Adm	Number	234,842	2,851 1,230 2,716 22,321	2,071 5,280 868 1,894 3,498	3,172 15,685 14,177 3,253	44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10,596 6,407 4,410 3,289 3,034	1,290 2,226 1,117 9,400	27, 481 6, 834 6, 887 13, 702	2,713 3,727 9,052 1,647 2,804	4,653 10,230 71 589	2,752 2,912 7,168
	State	United States	Alabama	Colorado	Georgia	Kansas	Massachusetts M.chigan7 Winnesota8 M.ssissippl	Montana	New Mexico New York North Carolina Ohio	Oklahoma	South Dakota	Wirginia
	missions (excluding transfers) Average Daily	Net Releases ⁴ Deaths Resident Resident Patient Poteline Patients Patients Population Presonel Potes Number Rate Respital Year Number Rate Rate Rate Rate Rate Rate Rate Rate	Total Admissions (excluding transfers) Met Released Deaths Patients Patients	Total Tota	Total Number Rate Strict Strict	Total	Total Mulber Rate Mulber Mulber	Total Tota	Total Parisations (excluding trinsfers) Parisations Parisations	Total Member Patient Patient	Total Maintain M	Total Marie Mari

09	78 62 73 06	005 34 46	8 6 5
1,187.60	1,224.78 1,420.95 1,154.62 1,333.73 1,173.06	1,264.05 1,539.86 1,303.34 1,401.72	1,194.86
1,701.85	1,980.82 1,723.30 1,626.36 1,708.15 1,988.24	1,883.80 1,971.59 1,989.96 1,822.48 1,533.69	948.30
915,408,058	72,639,356 10,083,037 2,392,380 19,898,519 8,583,249	39,571,113 42,523,345 7,810,907 168,000,000 59,942,898	7,560,763
180,942	12,621 2,039 5,82 4,415 2,022	8,250 6,819 1,890 31,873 11,291	1,547
304.1	238.0 339.8 335.8 250.3 158.6	411.6 276.2 284.0 550.8 345.9	377.9
538,064	36,675 5,851 1,471 11,648 4,317	21,006 21,568 3,965 92,182 39,084	7,973
534,191	36,483 5,810 1,462 11,554 4,144	20,525 21,412 3,823 91,802 38,561	15,021
49,706	2,991 822 147 1,021 476	2,235 1,374 431 9,081 3,217	1,535
347.4	540.8 113.5 314.8 201.2 624.7	406.8 223.9 438.6 205.8 154.6	451.1
186,911	19,834 684 463 2,343 2,697	8,545 4,829 1,739 18,970 6,044	3,597
95,577	12,170 286 197 1,847 1,552	3,311 2,386 962 8,984 2,567	1,880
134,498	9,950 938 401 2,302 1,329	6,678 3,551 887 18,291 6,323	2,437
130.0	143.6 70.9 136.5 89.2 104.5	195.7 76.0 132.4 182.9 78.7	121.7
230,073	22,120 1,222 1,288 4,149 2,881	9,989 5,937 1,849 27,255 8,890	4,317
United States	California Colorado Delaware Indiana	Maceachueetts Michigan7 Nebracka New York Pennsylvania	Tennessee

l These data were taken from the 1960 Special Survey of the public mental hospitals. Exceptions are shown in footnotes 7 and 8.

2 Public mental hospitals include the state, county and psychopathic hospitals.

3 Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Ceneus, Provisional estimate for April 1, 1960. 4 Net releases are defined as the net number of patients released to the community in any one year. Net release rates are per 1,000 average daily resident patient population.

5 per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.

Oper patient under treatment maintenance expositives are hased on the sum of preparient patients at beginning of year plus all admissions (excluding transfers)

Michigan 1959 Comesse data on first and readmissions to the Michigan public mental hospitial were used as hates for proteints the 1960 train admissions estimated from 1959 command attain to one train admissions estimated from 1959 command and attain the oppital. The state boogital system includes 3 contract units and data were not available for one of these units.

Mineson. The maintenine expenditure was not wantible for one extering the number of sverage daily resident patients for this hospital were accluded from the demainator in computing repreditures per resident patient. However, if was not possible to exclude the patient of the hospital from the demonstance of the expenditure per patient under treatment fattor.

9 This section of the table includes only etatee which have peychopathic hospitals.

DEFINITIONS

Public Mental Hospitals: Includes state and county mental hospitals as well as state psychopathic hospitals (short term, intensive treatment, teaching or research hospitals).

Net Releases: The net number of patients released to the community in any one year. This quantity is the number of placements on extramural care plus direct discharges less the number of returns from extramural care. National data on placements and returns from extramural care are not available but net releases may be computed from the usual movement data as:

| | Resident | All Admis- | Resident | Net | Patients + sions | Deaths | Patients | Releases | Beginning | Excluding | in | End of | of Year | Transfers | Hospitals | Year |

The total number of discharges does not necessarily affect the size of the resident patient population since many occur while patients are on extramural care. Thus, the concept of "net release" has been used here since it takes into account actual releases from and returns to the hospital.

Ratios: The expenditure per Expenditure resident patient (average daily) has been the most commonly used ratio for comparing mental hospital expenditures. Its major limi tation is that it does not take into account turnover of patients, which requires a large share of the expenditures. Thus, the ratio of expenditures to "patients under treatment" is also shown. The actual number of patients under treatment during the year is equal to the number of resident patients at the beginning of the year plus all admissions and all returns from extramural care. Since data on returns from extramural care are not available nationally, the number of resident patients at beginning of the year plus all admissions (excluding transfers) has been used as the best available estimate of "patients under treatment".

TRENDS

For the first time since 1955-56 a decrease of more than one percent occurred in the yearend resident patient population of the nation's public mental hospitals -- from 541,883 at the end of 1959 to 535,269 at the end of 1960, a drop of 6,614 or 1.2 percent. The drop of 1.3 percent, which occurred during 1956, had reversed a long-time trend which saw only one previous decrease (1943) in the public mental hospital populations. Since 1956 these populations have decreased at the rate of approximately 0.5 per-cent per year. Thus, the 1960 decrease may represent an acceleration of this trend. Furthermore, the fact that decreases occurred in the public mental hospital populations of 40 states in 1960 as compared with only 30 states during 1959 indicates that the decrease was widespread. Changes in the resident populations of the mental hospitals result from the combined effect of admissions, net releases and deaths during the year. Thus, the observed decrease in resident patients must be examined in relation to these quantities.

The trend of total admissions has been movsteadily upward since the mid-1940's, although the increase between 1959 and 1960 was not as great as that between 1958 and 1959. While the number of readmissions has continued to increase, a small decrease occurred in the number of first admissions. This is a striking deviation from the upward trend of first admissions and undoubtedly can be explained, in part. by the introduction of a new classification of admissions in states in the Model Reporting Area for Mental Hospital Statistics at the beginning of fiscal 1960. Personnel in some of states have indicated that this classification, which categorizes admissions according to type of prior hospitalization for mental illness, has resulted in a more thorough investigation of the patient's prior hospital experience such that some patients who might previously have been classified as first admissions are now found to be readmissions.

The number of net releases has been rising since the mid-1940's. The 1960 data show a continuation of this trend with the percentage of increase over 1959 (8.9 percent) approximately the same as that between 1958 and 1959. The number of deaths has varied over time. Between 1959 and 1960 there was an increase of 0.3 percent; between 1958 and 1959, a decrease of 3.2 percent; and between 1957 and 1958, an increase of 9.5 percent.

The number of full-time personnel in the hospitals has continued to increase. The number has risen from 145,462 in 1955 to 183,539 in 1960, an increase of 38,077 employees over the five year period. A 5.1 percent increase occurred between 1959 and 1960 as compared with a 3.1 percent increase between 1958 and 1959. The 9.2 percent increase in expenditures between 1959 and 1960 marks the continuation of an upward trend in this area also.

INTERSTATE VARIATION

Considerable variation among states in patient movement, personnel and expenditure data is indicated in Tables 1 and 2. Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, the number of admissions and the average daily resident patient population per 100,000 civilian population are given. Similarly, the number of net releases has been converted into a rate by dividing it by the average daily resident patient population. This denominator is an estimate of the number of person-years of exposure to the "risk" of release.

Both series of expenditure ratios show considerable variation among states, the expenditure per patient under treatment in 1960 ranging from \$400-500 up to \$1500-1600 (and \$2043 for the District of Columbia). It should be pointed out that these figures do not necessarily represent expenditures by state agencies only. Thus, county expenditures for the care of patients in the public mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. This has been done to ensure greater comparability among states in expenditures per patient.

Any interpretation of interstate differences should be made with caution. More detailed breakdowns of movement categories by age, sex, and diagnosis as well as more detail on personnel and expenditures will be available in Patients in Mental Institutions (National Institute of Mental Health, U.S.P.H.S.). This detail will provide partial explanations of the gross differences noted in the above tables. In addition, other factors such as information on policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc. must be evaluated to determine the extent of their influence on interstate variation.

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TABLE 3

PROVISIONAL DATA ON RECENT TRENDS OF PATIENT MOVEMENT, PERSONNEL, AND EXPENDITURES, PUBLIC MENTAL HOSPITALS: UNITED STATES, 1958-1960

change	1959-1960	ħ°5	14.2	8.9	0.3	-1.2	5.1	9.5	8.6	7.9
Percent change	1958-1959	6.3	0.6	8.9	-3.2	-0.5	3.1	5.4	6.2	0*4
	1960	234,842	137,853	192,028	477,64	535,269	183,539	\$927,787,593	1,721.28	1,193.65
	1959	222,791	137,862 84,929	176,411	749,64	541,883	174,635	\$849,493,595	1,567.39	1,106,43
	1958	209,503	137,061 72,442	161,972	51,294	544,863	169,438	\$805,861,786	1,475.26	1,063.38
	Mati	All admissions	First admissions	Net releases	Deaths in hospital	Resident patients at end of year	Personnel (full time) at end of year	Maintenance expenditures	Per resident patient	Per patient under treatment-

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January 1962

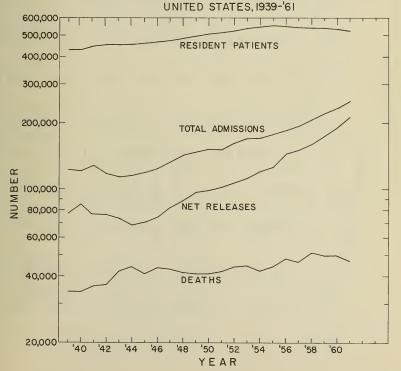
Bethesda 14, Maryland

Series MHB-H-6

PROVISIONAL DATA ON PATIENTS IN PUBLIC HOSPITALS FOR THE CARE OF THE MENTALLY ILL

1960 and 1961

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, PUBLIC MENTAL HOSPITALS,



For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. Price 5 cents

TABLE I PROVISIONAL PATIENT MOVEMENT, PERSONAL AND FINANCIAL DATA BY STATE; UNITED STATES, 1960¹ TOTAL PUBLIC MENTAL HOSPITALS²

	ures	Per Patient Under		41,179.57	755.58 2,094.96 1,039.43 774.96 1,228.29	1,388.49 1,378.23 1,174.62 2,031.51 1,020.80	680.06 1,188.14 1,151.07 1,595.71 1,168.31	1,727.57 797.43 791.09 1,201.66 1,171.95	1,271,14 1,569,23 1,106,65 507,67 1,154,23	941.24 1,351.67 1,059.44 1,219.38 1,300.08	1,196,84 1,425,79 901,69 877,26 1,155,90	929.47 883.15 1,294.55 1,125.52 651.48	869.45 615.60 812.77 1,220.13	876.28 1,497.24 682.08 1,191.45 1,157.55
PERSONNEL AND FINANCIAL DATA	Maintenance Expenditures	Per Resident		41,701.76	1,024,38 3,036,52 1,824,67 1,229,66 2,035,32	1,875,19 2,295,91 1,812,14 2,566,33 1,371,94	898.99 2,074.22 1,855.25 1,832.46 2,134.23	2,839,68 1,305,54 1,208,27 1,641,02 1,796,85	1,950,42 2,038,45 1,665,97 826,38 1,466,49	1,609.99 2,149.48 1,741.59 1,789.36 1,875.51	2,182,23 1,859,44 1,519,52 1,566,83 1,714,79	1,299.25 1,574.05 1,588.76 1,716.10 936.02	1,282,52 993,15 1,350,75 2,081,32 1,981,38	1,257.80 2,148.72 1,000.05 1,760.61 1,828.57
PERSONNEL AND	Maint	Total		\$916,482,804	7,538,414 1,081,000 3,014,355 5,939,273 75,871,790	11,127,385 19,172,510 3,158,552 18,453,947 12,826,511	10,672,803 1,986,365 59,265,010 21,661,481 9,326,585	10,404,592 8,801,978 10,138,607 4,775,380 15,528,361	40,732,484 44,203,747 17,061,191 4,315,683 18,890,098	2,680,641 8,718,287 968,325 4,505,620 40,116,600	1,889,815 171,507,214 14,847,195 2,651,080 48,977,793	9,284,435 7,635,739 62,250,840 5,700,883 6,129,080	2,291,863 7,968,997 21,202,663 2,143,775 2,276,602	15,888,110 14,207,510 5,425,272 26,540,480 1,170,285
		Total Cull time	Personnel at End of Yr.	181,957	1,611 163 620 1,394 12,615	2,162 3,521 3,109 3,378	2,418 446 10,517 4,798 2,192	2,051 2,051 2,665 1,045 3,376	8,542 6,621 3,190 1,525 4,031	2,145 1,000 1,000 8,515	469 32,113 5,188 526 9,524	2,405 1,470 12,251 1,172 1,560	549 1,725 4,705 466 455	3,175 2,495 1,213 4,455 227
		Daily Resident	Rate ³	308,4	226.4 183.5 127.2 271.5 233.6	342.8 329.7 395.2 621.8	306.1 142.3 355.7 253.2 158.3	171.0 224.7 258.3 304.4 282.2	407.7 276.9 304.4 241.9 264.7	248.1 290.1 198.6 419.7 353.5	92.7 549.7 217.8 269.4 293.9	310.3 274.4 346.0 396.4 290.7	264.3 225.7 166.2 116.5 294.6	291.2 235.9 292.3 378.0 194.5
		Average	Number	558,725	7,359 356 1,652 4,830 36,295	5,934 8,358 1,743 7,183 9,349	11,872 948 35,803 11,821 4,570	5,664 6,742 8,391 2,910 8,642	20,884 21,685 10,415 5,220 11,381	1,665 4,056 556 2,518 21,392	92,256 9,771 1,692 28,562	7,146 4,851 59,182 5,322 6,548	1,787 8,024 15,697 1,040 1,149	11,220 6,612 5,425 14,961 640
		Resident	End of Year	535,796	7,408 351 1,638 4,749 56,644	5,884° 8,173 1,724 7,320 9,460	11,944 917 35,722 11,739 4,181	3,558 6,633 7,388 8,624	20,666 21,530 10,283 5,232 11,252	1,662 3,907 546 2,509 21,264	866 91,858 9,753 1,671 28,262	7,049 4,588 38,668 5,236 6,543	1,615 7,973 15,872 942 1,154	11,539 6,517 5,395 15,021 657
		Deaths	Hospital	49,751	257 18 218 341 2,996	604 1,060 213 492 755	941 105 1,021 484	286 680 547 773	2,237 1,574 1,113 302 769	174 435 66 86 267 2,619	9,081 892 154 2,399	570 579 5,219 450 562	155 746 1,482 115	1,039 588 519 1,531 71
		64565	Rate	355.3	510.6 412.9 632.0 532.9 564.9	257.2 559.7 431.4 175.7	236.6 667.7 367.5 233.5 759.3	585.2 551.8 457.3 278.0 445.8	457.7 242.8 386.1 567.6 214.3	607.8 520.2 543.2 365.0	691.7 209.8 595.7 707.4	551.7 718.2 158.2 415.4 551.7	484.6 526.3 705.8 394.3	309.4 360.6 376.4 371.4 473.4
PATIENT MOVEMENT DATA		Net Rel	Number	191,415	2,286 1,044 2,574 20,502	1,526 4,678 752 1,262 2,350	2,809 633 12,082 2,760 3,318	2,144 3,720 3,837 809 3,853	9, 141 5, 265 4,021 2,439	1,012 2,110 302 919 6,974	599 19,350 5,821 1,197	2,570 6,200 1,380 2,303	866 4,226 8,733 453	5,471 2,384 2,042 5,556 5,556
PATIENT M	ransfers)	Re-	Admissions	94,752	991 242 1,226 12,844	2,557 514 647 1,026	1,074 246 7,105 1,883	948 2,074 1,977 335 1,841	3,433 3,524 2,260 1,184 959	349 1,121 62 3,407	9,106 2,367 5,87 5,176	1,250 1,309 2,612 678 725	2, 279 4, 557 223 202	2,071 735 706 3,171
	Admissions (excluding transfers)	First	Admissions	140,094	1,860 115 988 1,490 10.008	2,743 2,743 624 1,247 2,375	2,698 439 8,545 2,694 1,587	2,242 2,050 2,309 7,19 2,576	7,163 2,883 2,509 2,097 2,054	826 1,101 299 748 5,993	563 18,528 4,320 940 8,525	1,463 2,344 6,440 869 2,079	2,674 5,673 406 387	2,680 2,077 1,790 4,041
	Admissions	Total	Rate 3	132,2	87.7 75.3 94.7 152.7	84.4 208.3 212.7 235.5 69.1	97.2 102.9 155.5 98.1	102.2 137.5 132.0 110.3	206.9 81.8 159.4 152.0 70.1	175.1 158.9 128.9 186.2	72.9 164.7 149.1 211.3	206.6 79.9 196.5	159.3 159.3 108.3 70.4 151.0	123.3 100.3 134.5 182.2
		To	Number	234,846	2,851 1,230 2,716 22,852	2,071 5,280 938 1,894 3,401	3,772 685 15,650 4,577 3,495	2,190 4,124 1,286 4,286	10,596 6,407 4,769 3,281 3,013	1,175 2,222 361 1,117 9,400	27,634 6,687 1,327 13,701	2,713 9,653 1,647 2,864	4,942 10,230 629 589	4,751 2,812 2,496 7,212 363
			Number of Hospitals	279	2		៧ ឆ្នេច	87 48 A8 A8	15 a a a a a	-48	1 22 4 - 22	4587-		41000 2 -
	State Hw			United States	Alabama Alaska Arizona Arkansas	Colorado Connecticut ¹⁰ Delaware District of Columbia Florida	Georgia Idaho 11 ino is Indiana	Kansas Kentucky Louisiana Maine Maryland	Messachusetts Michigan Minnesota9 Mississippi Missouri	Montana Nebraska New Jampshire New Hampshire New Jersevio	New Nexico New York North Carolina North Dakota Onio	Oklahoma 10 Oregon Oregon Rensylvania Rode Island	South Dakota Tennessee Texas Vermont	Virginia Mashington West Virginia Misconsin Myoming10

United States 287 220,071 129.6 136,659 39,413 186,718 347.4 9,675 559,478 352,77 179,162 60,000 41,171,69 Colorado 10 22,004 18,000.30 18,171,000 20 20 18,171,000 20 20 18,171,000 20 20 20 20 20 20 20 20 20 20 20 20				
(e.g. 220,071 123,6 19,6 19,6 19, 113, 113, 113, 113, 113, 113, 113,	\$1,171.84	1,215.04 1,420.35 1,154.82 1,355.75 1,165.20	1,259.41 1,532.17 1,305.12 1,428.84 1,253.46	1,182,61
(e.g. 220,071 129,6 159,656 99,413 196,713 347,4 49,675 554,576 557,476 302.7 179,162 48, 116,0 22,634 146,0 99,25 12,776 20,331 26,15 26,	\$1,680.30	2,006.22 1,722.57 1,628.36 1,708.00 2,038.74	1,899.77 1,961.74 1,969.96 1,657.74 1,533.69	946.95
(e.g. 22,077 122,07 152,68 194,13 166,713 547,4 49,075 554,778 857,778 857,778 177,718	\$903,445,202	72,839,356 10,078,711 2,332,380 19,896,519 8,792,598	39,425,956 42,510,852 7,810,909 171,250,411 59,942,698	7,550,043
(e.g. 22,077 120,07 150,689 99,413 166,713 547,4 99,075 558,979 558,979 558,979 158,0975	179,162	12,543 1,989 582 4,415 2,046	8,250 6,521 1,890 32,015	1,567
(e.g. 22,071 12.0 135,659 99,413 186,713 547.4 99,075 558,578 110 12.0 135,659 184,0 135,659 185,034 184,0 135,659 185,034 185,034 184,0 135,64 184,	302,7	255.0 358.0 553.6 249.6 156.4	405.2 275.4 283.6 549.4 3 45.2	224.5
(eg 267 220,071 129,6 136,689 99,413 186,713 347.4 49,675 11,122,6 11,122,6 11,122,6 11,122,6 11,122,6 11,122,6 11,122,6 11,122,63 11,122,6 11,122,	537,478	56,207 5,851 1,471 11,849 4,317	20,753 21,568 5,965 92,182 59,084	7,975
(es) 227 220,071 129,6 115,659 93,413 166,713 347,4 a.6 10 1,222 70.6 115,62 112,799 20,313 1861,5 2 11 1,222 70.6 115,6 115,7 2 12 1,222 70.6 115,6 115,7 2 13 1,222 70.6 115,7 2 14 1 1,22 115,7 2 15 1,22 115,7 3 15 1,2 115,7 3 16 1,2 115,7 3 17 1,2 115,7 3 18	534,578	36,556 5,810 1,462 11,554 4,138	20,525 21,434 3,823 91,802 38,561	7,922
(es 267 220,071 129,6 119,659 99,413 189,713 12,22	49,675	2,995 603 147 1,021 484	2,235 1,374 451 9,081	744
(ea) 287 220,071 122.6 156.659 39,413 11 1222 156.659 39,413 11 1222 156.64 144.0 9,45.5 12,759 14.5 11 12.2 15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8	347,4	561.5 116.7 514.8 201.1 680.3	411.7 222.9 458.8 205.8 154.6	488.8
tes 257 20,071 129,6 136,688 98 118,0 118,688 118,0 11	186,715	20,331 883 463 2,543 2,937	8,545 4,807 1,740 18,970 6,044	5,244
tes 267 220,071 129,6 11 129,6 11 129,6 11 129,6 11 129,6 11 1,222 129,6 115,2	95,413	12,769 286 286 1,805 1,852	3,311 9,585 9,963 2,567	2,160 3,152
tes 267 220,071 1 1 2,026 4 1 1 1 2,026 1 1 2,026	136,658	9,925 936 401 2,344 1,271	6,678 2,552 2,552 867 18,291 6,323	2,457
tts 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	129,6	146.0 70.6 135.6 88.9	195.0 75.8 152.3 162.4 78.5	129.9
.a t sa	250,071	22,694 1,222 1,222 598 4,149 5,123	9,989 5,937 1,850 27,255 8,890	4,617 6,910
United States Chifferna Chifferna Chievan Indiana	267	01 8 %	12 6 5 17	4.4
	United States	California Colorado Delaware Indiana lowal0	Massachugetts Michigan Nebraska New York Pennsylvania	Tennessee

- These data were taken from the 1960 census of patients in mental institutions.
 Exceptions are given in footnotes 8, 9, and 10.
- 2 Public mental hospitels include the state, county, and psychopathic hospitals.
- 3 Admission and everage daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau Of Geneus, <u>Ourrent Population Reports</u>, Series P-25, No. 239, Provisional estimate for July 1, 1980.
 - 4 Net releases are defined as the net number of patients released to the community in any on year. Net release rates are per 1,000 average daily resident patient population.
- 5 Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures. See Footnote 9.
- 6 Per patient under treatment maintenance expanditures are based on the sum of resident patients at beginning of year plus all admissions (excluding transfers) for hospitals reporting expenditures, See footnote 9.

- Instrict of Columbia: Since a substantial proportion of the patients at St. Elizabeth Reppi is an enn-escapia of the Discussion and resident patient rates per 100,00 population are computed only for sesients of the District of Columbia. District of Columbia, District of Columbia, District of Columbia, and Struct escents include 1,750 total admissions and 5,108 average daily resident patients.
- 8 Michigen: Personnel data were neither reported nor estimated for one hospital.
- 9 Winnesda, Wandeause acception data and personnel data were interrogented nor estimated for eno hospital. The norther of wearge datay resident patients for this hospital (147 patients) were excluded from the demontantor in computing expenditures per resident patient. Thereor, it has not possible to exclude the patients for this per resident patient. Thereor, it has not possible to exclude the patients for this hospital from the demoninator of the expenditures per patient under resident vation.
- 10 1980 Special Survey data were used as estimates of the 1980 date from the Census of Patients in Mental Institutions for the following statement of the Census of Cornecticut Octabens Systems

Connecticut Cklahoma Myor Iowa (one hospital only) New Jersey

11 This section of the table includes only states which have psychopathic hospitals.

PROVISIONUL PATIENT WORDLRIVT, PERSONNEL AND FINANCIAL DATA BY STATE; UNITED STATES, 1981.¹ TOTAL PUBLIC MENTAL MOSPIFALS²

	\$	Per Patient	Undar Treatment ⁶	\$1,235.09	736.62 2,415.13 1,012.94 756.34	1,450,18 1,542,84 1,206,46 2,217,99 1,005,55	767.31 1,588.37 1,220.79 1,179.77 1,365.57	1,515,44 1,855.38 934.48 809.11 1,207.48	1,249.11 1,454.02 1,569.54 1,145.89 598.15	1,442.34 863.26 1,451.65 1,171.26 1,204.19	1,573.47 1,080.76 1,418.07 925.60 881.52	1,250.35 994.27 917.84 1,312.72 1,394.68	742.62 927.00 621.53 781.80 1,510.25	1,224,41 883,49 1,590.82 667.14 1,235.45	1,244.76
PERSONNEL AND FINANCIAL DATA	Maintenance Expanditures		Per Resident Patient ⁵	\$1,835.44	1,042,05 5,275,21 1,863,59 1,229,09 2,337,98	2,075.03 2,760.47 1,929.51 2,874.80 1,451.39	1,070.35 2,188.57 2,266.81 1,734.61 1,901.21	2,594,44 3,193.75 1,629.42 1,310.59 1,698.69	2,022.17 2,229.49 2,089.90 1,768.59	1,894.96 1,588.17 2,326.18 1,878.16 1,787.77	2,026.45 2,051.87 1,875.43 1,604.87	1,957.95 1,413.95 1,664.05 1,643.36 2,093.28	1,088.63 1,503.54 1,053.87 1,353.09 2,493.63	1,878.04 1,265.36 2,432.12 1,079.50 1,852.71	2,110.77
PERSONNEL AND	Maint		Total	\$975,927,125	7,818,498 1,149,600 5,082,377 5,789,003 85,135,032	12,558,152 22,650,521 5,428,746 20,629,538 15,931,853	12,708,259 2,571,572 2,153,470 81,550,802 22,373,431	10,084,586 10,845,970 10,348,463 10,830,738 4,939,791	17,170,238 45,691,142 44,466,769 17,597,446 5,071,110	20,971,558 2,685,600 8,969,757 1,061,162 4,478,574	43,045,925 1,840,529 170,262,450 15,727,722 2,787,371	55,502,862 9,855,219 7,820,919 65,228,508 6,941,323	7,142,486 2,398,145 8,442,243 21,340,878 2,408,851	2,276,186 14,528,360 15,176,429 5,529,219 27,886,992	1,283,351
	Total	Full-time Personnel	at End of Year	187,494	1,704 176 649 1,427 13,469	2,830 3,890 829 5,420	2,515 406 444 10,908 4,843	2,141 2,165 2,240 2,782 1,045	3,431 8,491 6,892 3,111	4,232 555 2,094 164 972	8,598 439 32,297 3,219 5,219	10,346 2,458 1,709 12,410 1,310	1,682 578 1,980 4,859 450	480 2,497 1,208 4,614	220
		Average Daily Rasident Patient Population	Rate ³	293.8	228.8 174.6 120.6 263.4 226.2	338.8 315.1 394.9 823.2	303.0 196.8 140.1 347.5	159.9 157.3 209.5 250.3 298.6	271.0 395.3 268.2 287.2 237.9	254.4 250.9 272.7 194.8	342.6 93.2 534.3 216.1 271.0	277.3 299.3 262.1 356.1	278.5 232.5 220.0 164.1 105.9	292.7 292.7 219.6 277.0	181.6
		Average Dai	Numbar	552,258	7,503 1,654 4,710 36,414	5,946 8,138 1,777 7,176 9,599	11,875 1,175 35,484 11,768	2,887 6,859 8,851 8,864	8,491 20,494 21,277 9,950 5,211	11,067 1,691 3,856 2,505	21,242 897 90,786 9,800	27,326 6,970- 4,700 38,475 5,316	6,561 1,595 7,914 15,772	1,212 11,480 6,240 5,122 15,052	809
		Resident	End of Year	527,945	7,569 1,664 4,716 35,808	5,782 8,158 1,766 7,053	11,946 1,180 910 35,344 11,786	8,815 6,097 8,184 8,184	8,275 19,757 21,352 9,573 5,275	10,987 1,711 5,868 2,518	21,254 90,952 9,829 1,738	25,919 6,841 4,441 58,096 5,865	8,596 1,595 7,941 15,952 807	1,219 11,622 5,929 5,410 15,140	591
		Deaths	in Hospital	46,975	535 14 162 366 2,756	546 227 440 826	866 53 71 7,592 1,046	423 569 543 343	2,003 1,218 1,006	694 167 354 36 254	2,616 99 8,514 866	2,080 587 5,138 3,98	562 174 674 1,390	122 997 524 515 1,411	98
		38568	Rate	404.3	334,5 316,2 735,8 546,1	386.6 683.9 477.8 252.0 351.5	315.8 328.5 624.2 373.0 301.8	936.5 670.8 694.1 563.8 293.3	550.1 471.6 270.8 480.2 555.9	258.3 729.2 507.5 527.4 378.0	251.7 763.7 226.9 642.6	541.3 556.4 742.1 180.2 566.1	574.9 512.9 607.0 631.2 612.8	427.4 533.0 494.7 461.3 402.5	570,7
PATIENT MOVEMENT DATA		Net Releases	Number	215,167	2,510 1,217 2,572 22,151	2,299 3,607 1,808 3,374	3,730 386 783 13,236 3,552	2,640 4,408 4,659 853	4,671 9,664 3,761 2,778 2,897	2,859 1,253 1,957 298	7,471 685 20,600 6,297 1,271	14,792 2,484 3,488 6,932 1,214	2,460 818 4,804 9,955 592	5,823 5,087 2,363 6,058	347
M TATA	ansfers)		Re- admissions	108,743	1,166 28 287 1,290 16,001	1,391 5,342 392 593 1,463	1,116 160 280 7,468 2,170	1,844 916 2,530 2,372 431	2,067 3,855 3,747 2,396 1,211	990 577 1,195 53 594	3,652 355 9,906 3,159 460	5,485 1,286 1,643 2,836 723	1,036 455 2,582 5,037 239	241 2,556 1,258 998 3,401	130
	Admissions (excluding transfers)		First	144,572	2,040 97 1,118 1,615 8,070	1,352 3,153 726 1,388 2,935	3,502 289 267 8,982 2,475	1,647 1,378 2,106 2,582 773	2,055 2,055 2,054 2,035	2,298 872 1,077 307 816	6,425 482 18,302 4,080 1,031	9,044 1,577 2,295 6,662 1,018	2,059 517 2,864 6,588 414	2,747 1,765 1,897 4,187	264
	Admission	al	Rate 3	139.7	97.7 62.2 102.5 162.5	156.3 249.6 248.4 242.9 85.6	117.9 75.2 124.9 161.1	125.7 106.3 146.3 130.0	163.5 207.3 85.7 146.4	75.6 213.0 160.7 124.1	162.3 87.0 166.0 159.7 233.9	147.4 122.9 219.6 83.0 206.0	150,5 141,7 151,4 118.8 71,6	178.3 130.1 106.4 156.6 188.9	117,6
		Total	Number	255,115	3,206 1,405 2,905 24,071	2,743 6,495 1,118 1,981	4,618 449 847 16,450 4,645	3,491 2,294 4,436 4,954 1,204	3,122 10,758 6,801 5,074 3,246	3,288 1,449 2,272 360 1,210	10,077 857 28,208 7,239 1,491	14,529 2,863 3,838 9,498 1,741	5,075 972 5,446 11,425	705 5,103 5,023 2,895 7,588	294
			Numbar of Hospitals	287	os öö	07 PO 07 4	22 6	© 10 4 10 Cl	ត ដ ក ព ព ព	10 ਦ ਝਾਂ ਦ ਦ	22 22 4 1	23 4		- 4 10 to 8	-
			Stata	United States	Alabama Alaska Alizona Arkansas California	Colorado Connecticut Dolaware District of Columbia ⁷ Florida	Georgia Fawaii Idaho 111inois	lowa Kansas Kantucky Louisiana Maine	Maryland Massachusatts Michigand Minnasota Mississippi	Missouri Montana Nebraska Navada New Hampshire	New Jersey New Maxico New York North Carolina North Dakota	Ohio Oklahoma Oregon Pennsylvania Rhoda Island	South Carolina South Dakota Tannossea ¹⁰ Taxas	Varmont Virginia Washington West Virginia Wisconsin	Wyoming

United States	272	247,705	158.8	140,874	107,051	209,697	595.4	48,879	528,883	550,884	295.1	185,968	\$980,197,921	\$1,808.68	\$1,225.59
California Colorado Dolaware Indiana	08	25,649 1,754 651 4,527 5,102	146.9 99.9 144.7 92.0	7,810 758 454 2,295 1,508	15,839 998 217 2,034 1,794	21,782 1,511 499 5,212 5,257	223.6 244.1 276.5 849.5	2,753 545 144 1,044 423	55,890 5,708 1,470 11,625 3,566	36,284 5,865 11,450 11,618 5,834	225.4 534.2 322.2 247.1 138.0	12,820 2,153 584 4,438 1,994	82,921,587 11,258,758 2,494,545 20,550,804 9,519,779	2,285.35 1,919.85 1,720.24 1,768.88 2,482,99	1,577.52 1,488.46 1,180.47 1,294.04
Massachugetts Michigan Nebraska New York Pennsylvania	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10,135 6,326 1,884 27,811 9,207	195.5 79.7 153.2 163.7 80.4	6,425 2,720 860 18,069 6,477	3,710 3,606 1,024 2,742	8,975 5,295 1,581 20,207 6,681	440.4 250.2 420.0 222.7 174.5	2,002 1,217 549 8,514 5,138	19,685 21,250 5,777 90,892 57,949	20,375 21,155 5,764 90,734 38,335	295.0 286.8 286.2 554.0	8,179 8,586 1,888 32,195	44, 214, 740 42, 474, 548 8, 027, 025 170,000,000 59,946,528	2,170,05 2,007,98 2,132,58 1,873,61 1,563,75	1,442.10 1,530.08 1,406.52 1,421.25 1,254.95
Tennesses	4 14	5,109	142.0	2,805	2,504	4,471	568.6	1,411	7,886	7,863	218.6	1,725	7,906,952	1,005,59	606.78

1 These data were taken from the 1961 Special Survey of the public mental hospitals. Exceptions are given in footnotes 8, 9 and 10.

2 Public mental hospitals include the state, county and psychopathic hospitals.

3 Admission and average daily resident patient rates are per 100,000 estimated civilian population. Sources 1.5. Bureau of the density <u>Outrent Population Reports</u>, Series P-25, 86, 289 Frovincianal estimate for July 1, 1991.

4 Net releases are defined as the net number of patients released to the community in any one year. Net release rates are per 1,000 average daily resident patient population.

5 Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures. See footnote 10,

6 Per patient under treatment maintenance expenditures are based on the sun of resident patients at beginning of year plus all admissions (excluding transfers) for hospitals reporting expenditures. See features 10.

- 7. Dissirtet de Cloubbàsis. Since a aubstantial propertion of the patients at the St. Elizabethe Hoppistal are non-residents of the District of Columbia, stall amissions and resident patient rates per 100.0 population are computed only for residents of the District of Columbia. District residents include 1,000 testal amissions and 5,100 average daily resident patients.
- 8 Illinoss First and readmission public mental hospital data from Illinois for the 1960 Genes of Patients in Mental Institutions were used as a basis for pro-rating the 1961 total admissions between these two categories.
- 9 Michigan: First and readmission public mental hospital data from Michigan for the 1980 Consus of Patients in Mental Infatitutions were used as a basis for pro-rating the 1961 total ad-mission between these two categories.
- O Tenesses: Percents and Marienance separatives are included for two repopulation: hospitals that had not askitted patients during fiscal year 1951. Interfore, the anantennous expenditures of \$10.1944 were excluded for these two hospitals in computing the ratios of maintenance expenditures per resident patient and per patient under treatment.
 - 11 This section of the table includes only states which have psychopathic hospitals.

The data in Table 2 were obtained from the 1961. Special Survey of public mental hospitals while those in Table 1 were taken from the 1960 Census of Patients in Mental Institutions. Footnotes to the tables indicate where estimates have been made in instances where information was incomplete. NOTE: Data for Hawaii are included in the 1961 figures but not in the 1960 figures.

DEFINITIONS

<u>Public Mental Hospitals</u>: Includes state and county mental hospitals as well as state psychopathic hospitals (short term, intensive treatment, teaching or research hospitals).

Net Releases: The net number of patients released to the community in any one year. This quantity is the number of placements on extramural care plus direct discharges less the number of returns from extramural care. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

The total number of discharges does not necessarily affect the size of the resident patient population since many occur while patients are on extramural care. Therefore, the concept of "met release" has been used here since it takes into account actual releases from and returns to the hospital.

Expenditure Ratios: The expenditure per resident patient (average daily) has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not take into account the number of admissions for which a large share of the expenditure is required. Thus, the ratio of expenditures to "patients under treatment" is also shown. The actual number of patients under treatment during the year is equal to the number of resident patients at the beginning of the year plus all admissions and all returns from extramural care are not available nationally, the number of resident patients at beginning of the year plus all admissions (excluding transfers) has been used as the best available estimate of "patients under treatment."

TRENDS

The recent admission of Alaska and Hawaii as States complicates comparisons of data for the total United States over a period of years. Table 3 provides a section showing United States totals for 1959-61 with data for Alaska and Hawaii removed for analytical purposes. All of the discussion of trends which follows is based entirely on this section of the table. Thus, 1961 was the second consecutive year since 1956 for which a decrease occurred of more than one percent in the year-end resident population of the nation's public mental hospitals – from 535, 445 at the end of fiscal year 1960 to 526, 414 at the end of fiscal year 1961 to 526, 414 at the end of fiscal year 1961 occurred during 1956, had reversed a long-time trend which saw only one previous decrease (1943) in the public mental hospital populations. Since 1956 these populations have decreased at the rate of approximately 0.5 percent per year except for the change in 1959-60 which was 1.2 percent. In 1961 the total net decrease was 9, 031, resulting from a total increase of 1,562 in 21 states. Thus, the decrease das in 1959-60

when there were decreases in the resident patient populations in 40 states. Furthermore, 75 percent (7, 971) of the 10,593 decrease occurred in 9 of the 28 states with one of these 9 states (Ohio) accounting for 2, 343 or 22 percent of the gross decrease, Changes in the resident populations of the mental hospitals result from the combined effect of admissions, net releases and deaths during the year. Thus, the observed decrease in resident patients must be examined in relation to these factors.

The trend of total admissions has been moving steadily upward since the mid-1940's. First admissions and readmissions both increased in 1960-61 with a slightly larger percentage increase for readmissions (see Table 3). This may be partially explained by the introduction of a me classification of admissions in states in the Model Reporting Area for Mental Hospital Statistics at the beginning of fiscal 1960. Personnel in some of these states have indicated that this classification, which categorizes admissions according to type of prior hospital interest of the state of th

The number of net releases also has been rising since the mid 1940's. The 1961 data show a continuation of this trend with the percentage increase over 1960 (12.2 percent) slightly greater than that between 1959 and 1960. The number of deaths has varied over time. Between 1960 and 1961 there was a decrease of 5.7 percent; between 1959 and 1960, an increase of 0.2 percent; and between 1958 and 1959, a decrease of 3.2 percent.

The number of full-time personnel in the hospitals has continued to increase. The number has risen from 145,462 in 1955 to 186,912 in 1961, an increase of 41,450 employees over the six year period. A 2.8 percent increase occurred between 1960 and 1961 as compared with a 4.1 percent increase between 1959 and 1960. The 6.2 percent increase in maintenance expenditures between 1960 and 1961 marks the continuation of an upward trend in this area also.

INTERSTATE VARIATION

Considerable variation among states in patient movement, personnel and expenditure data is indicated in Tables 1 and 2. Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, the number of admissions and the average daily resident patient population per 100,000 civilian population are given. Similarly, the number of net releases has been converted into a rate by dividing it by the average daily resident patient population. This denominator is an estimate of the number of person-years of exposure to the "risk" of release.

Both series of expenditure ratios show considerable variation among states. The annual expenditure per patient under treatment in 1961 ranged from \$600-1800 with two states showing amounts over \$2,000. It should be pointed out that these figures do not necessarily represent expenditures by state agencies only. Thus, county expenditures for the care of patients in the public mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. This has been done to ensure greater comparability among states in expenditures per patient.

Any interpretation of interstate differences should be made with caution. More detailed break-downs of movement categories by age, sex, and diagnosis as well as more detail on personnel and expenditures will be available in Patients in Mental Institutions (National Institute of Mental Health, U.S.P.H.S.). This detail will provide partial explanations of the gross differences noted in the above tables. In addition, other factors such as information on policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

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PROVISIONAL DATA ON RECENT TRENDS OF PATIENT MOVEMENT, PERSONNEL, AND EXPENDITURES, PUBLIC MENTAL HOSPITALS: UNITED STATES, FISCAL YEARS $1959-61^{17}$

Total Public Mental Hospitals

	ITEM	1959	1960	1961
A11	Admissions	222,791	234,846	253,115
	First admissions	137,862 84,929	140,094 94,752	144,372 108,743
Ne t	releases	176,411	191,415	215,167
Dea	ths in hospital	49,647	49,751	46,975
Res	ident patients at end of year	541,883	535,796	527,945
	sonnel (full time) at end of year	174,635	181,957	187,494
Mai	ntenance expenditures	\$849,493,595	\$916,482,804	\$975,927,125
	Per resident patient			
	Per yearPer day	\$1,567.39 4.29	\$1,701.21 4.65	\$1,833.44 5.02
	Per patient under treatment			
	Per year Per day	\$1,106.43 3.03	\$1,179.57 3.22	\$1,235.09 3,38

Public Mental Hospitals Excluding Alaska & Hawaii

		· ·	5		
				Per cer	nt change
ITEM	1959	1960	1961	1959-1960	1960-1961
11 Admissions	222,791	234,700	252,541	5.3	7.6
First admissions	137,862 84,929	139,979 94,721	143,986 108,555	1.5 11.5	2.9 14.6
t releases	176,411	191,268	214,670	8,4	12,2
aths in hospital	49,647	49,733	46,908	0.2	-5.7
sident patients at end of year	541,883	535,445	526,414	-1.2	-1.7
rsonnel (full time) at end of year	174,635	181,794	186,912	4.1	2.8
intenance expenditures	\$849,493,595	\$915,401,804	\$972,205,953	7.8	6,2
Per resident patient					
Per year	\$1,567.39 4.29	\$1,700.87 4.65	\$1,831.70 5.02	8.5	7.7
Per patient under treatment					
Per year	\$1,106.43 3.03	\$1,178.96 3.22	\$1,233.65 3.38	6.6	4.6

 $\frac{1}{2}$ Data for Alaska are included in the 1960 & 1961 figures but not in the 1959 figures. Data for Hawaii are included in the 1961 figures but not in the 1959 or 1960 figures.

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PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA PUBLIC MENTAL HOSPITALS UNITED STATES

1961 and 1962

I. PURPOSE

The purpose of this report is to provide summary patient movement and administrative data on a current basis for the benefit of mental hospital administrators, legislators, educators, and other interested persons. This publication contains data for the public mental hospitals which include state and county mental hospitals as well as state psychopathic hospitals (short term, intensive treatment, teaching or research hospitals). Table I shows 1961 data collected in the annual census of patients in mental institutions. The data in Table 2 are obtained from the 1962 "Preliminary Survey of Public Mental Hospitals." These data are provisional and, therefore, subject to some change. (Footnotes to both tables indicate what estimates were made). Both of these sets of data will appear in greater detail in future publications in the Series --Patients in Mental Institutions, Part II (NIMH, U.S. PHS). Data for patients in private mental hospitals and psychiatric patients in general hospitals will be available in other parts of this series. Data for patients resident in Veterans Administration hospitals and for patients served by psychiatric outpatient clinics will be available in separate publications by the Biometrics Branch of NIMH.

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the public mental hospitals in terms of three categories of patient movement (admissions,

net releases and deaths). These categories are defined as follows:

- 1. Admissions No Prior Psychiatric Inpatient Experience This category includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition).
- 2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

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Releases Alive from		+	All Admis- sions excluding Transfers	Deaths	-	Resident Patients End of Year
------------------------	--	---	---	--------	---	--

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care.

- 3. <u>Deaths in Hospital</u> This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios per 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example:

Suppose that the resident patient populations in State A and State B each decreased by 0.6 percent (or 6 per 1,000). Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the

patient movement ratios are computed to be the following:

Movement Category	State A	State B
Admissions	323.7	522.2
Net Releases	229.5	454.8
Deathe	00.0	72 5

These ratios show that State Bhas much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release. the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 100 Admissions Another approach to the problem of analyzing patient movement data is given by relating net releases to admissions (a group with a high probability of release). Preliminary data obtained from 14 Model Reporting Area states indicated that 85 percent of the net releases in a given year occurred to patients whose length of hospital stay was less than one year (i.e. largely admissions during the year). The remaining 15 percent of net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year. Thus, exclusion of these patients from the denominator limits the usefulness of this 1963 B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. The ratio of expenditures to "patients under treatment" does take into account the admissions during the year. The actual number of patients under treatment during the year is equal to the number of resident patients at the beginning of the year plus all admissions during the year and all returns from extramural care among patients on extramural care at the beginning of the year. Since this latter category of data is not available nationally, the number of resident patients at the beginning of the year plus all admissions (excluding transfers) has been used as the best available estimate of "patients under treatment."

It should be pointed out that these figures do not represent expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the public mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. These costs have been included for greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Tables 1 and 2. Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

However, as has been emphasized in Sections A4-A6, meaningful interstate comparisons cannot be made without more detailed breakdowns of movement categories by such variables as age, sex, diagnosis, and time on books. Data on most of these variables as well as more detail on personnel and maintenance expenditures will be available in Patients in Mental Institutions (NIMH, U.S. PHS). This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effective-

ness of therapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

III. TRENDS

During 1962 the resident patient population of the Nation's public mental hospitals changed from 527,535 to 515,948, a decrease of 11,587 (2.2 percent). This is the largest single year decrease since the downward trend began in 1956 and the graph illustrates this reversal of a long time increasing trend.

The decrease of 11,587 consisted of a total decrease of 12,395 in 40 states (including the District of Columbia) and a total increase of 808 in 11 states. Of the 40 states that showed decreases, 6 states accounted for 6,614 or 57 percent of the gross decrease.

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In recent years there has been a growing recognition that nursing home facilities may be a significant factor in the mental hospital population decline. In an attempt to determine the extent of placements from the mental hospitals to nursing homes an inquiry was made in the fall of 1962 requesting the total number of such placements in each state. Although data were not received from all states, the total number of nursing home placements among those states replying was about 8,000. However, from these data it is impossible to determine precisely the amount of resident patient population decrease directly attributable to nursing home placements. The results were mixed, with nursing home placements being of obvious significance in accounting for the patient population decreases in a few states, and of little apparent importance in other states. In fact, many states with little or no patient population decline had what appeared to be active nursing home placement programs. To make a more adequate assessment of the effect of nursing home placement programs on decreasing patient populations would require, as a minimum, movement data specific for patients 65 years of age and over.

Total admissions rose from 253,005 in 1962, an increase of 17,762. The trend has been markedly upward since the mid-1940's, and the 1962 increase was the second largest in the last eight years. The number of net releases also has been rising since the mid-1940's. The 1962 data show a continuation of this net release trend although the 7.1 percent increase in 1962 was less than the 12.6

percent increase during 1961. The number of deaths in 1962, despite a slight increase over 1961, was no greater than the number of deaths in 1959 and 1960.

Full-time personnel employed in the Nation's public mental hospitals increased from 187,051 in 1961 to 189,046 in 1962, a gain of 1,995 which continues an established trend. Maintenance expenditures have been increasing rapidly in recent years and for the first time these expenditures exceeded one billion dollars. This represents a patient under treatment expenditure per day of \$5.56 and is an increase of 53 percent over 1955 when this expenditure per day was \$2.33.

Trends, since 1955, in the data given in this report are indicated numerically in Table A. Also shown are the same data expressed as index numbers where 1955 is the base year. Thus, percent change since 1955 can be readdirectly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance the 1958 index number for admissions is 117.9. This means that ad-

missions in that year were 17.9 percent greater than 1955 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1955 was selected as the base year primarily because the number of resident patients reached its maximum during that year. Also, the admission, net release, and death data were not atypical during 1955. Percentage change between the data for any two years other than 1955 may be computed by obtaining the difference between the two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net releases in 1959 and 1960 are 139.5 and 151.3. The percent change between 1959 and 1960 is given by: •

$$\frac{151.3 - 139.5}{139.5} = \frac{11.8}{139.5} = 8.46$$

Therefore, there was an 8.5 percent increase in net releases between 1959 and 1960.

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS NET RELEASES, AND DEATHS, PUBLIC MENTAL HOSPITALS,

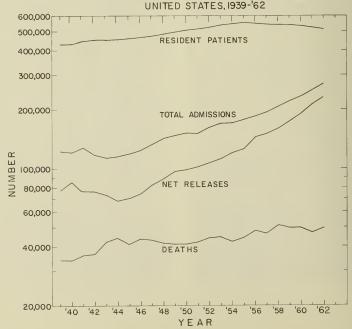


TABLE A RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, PUBLIC MENTAL HOSPITALS: UNITED STATES, 1955–1962 $\stackrel{.}{\to}$

1962	270,767 230,899 49,573 515,948	189.046 \$1.035,158,057 1,985.28 5.43	1,297.63		152.1 182.5 111.7 92.3	129.1	177.6	152.8
1961 3/	253,005 215,600 46,881 527,535	187.051 \$974,838,616 1,833.88 5.02	1,234,24		142.1 170.4 105.6 94.4	127.8	164.2	145.3
1960 2/	234,846 191,415 49,751 535,796	181,957 \$916,482,804 1,701.21	1,179.57		151.9 151.3 112.1 95.9	124.3	152.4	138.9
1959	222,791 176,411 49,647 541,883	174,635 \$849,493,595 1,567.39	1,106.43		125.2 139.5 111.9 97.0	119.3	140.4	130.3
1958	209,823 161,884 51,383 545,182	169,438 \$805,861,786 1,475.26 4.04	1,063,38	UMBERS	117.9 128.0 115.8 97.5	115.7	152.1	125,2
1957	194,497 150,413 46,848 548,626	162,753 \$731,875,462 1,332.31 3.65	981.21	INDEX NUMBERS	109.3 118.9 105.6 98.2	111.2	119.3	115.5
1956	185,597 145,313 48,236 551,390	153,499 \$662,994,142 1,195.01	890,47		104.3 114.9 108.7 98.7	104.9	107.0	104.8
1955	178,003 126,498 44,584 558,922	146,392 \$618,087,247 1,116.59	849.31		100.0 100.0 100.0 100.0	100.0	100.0	100.0
ITEM	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year Maintenance Expenditures Per Resident Patient Per Year	Per Patient Under Ireatment Per Year Per Day		All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year Maintenance Expenditures	Per Year Per Day	Per Year Per Day

- 5 -

1/ 1955-1961 data from Patients in Mental Institutions. These data include estimates for under-reporting wherever possible. 1962 data from the Provisional Survey of Public Mental Hospital.

2/ Data for Alaska are included for the first time in 1960, 5/ Data for Hawaii are included for the first time in 1961.

 $\frac{2}{\text{Public}}$ mental hospitals include the state, county and psychopathic hospitals.

 $\underline{5}/\mathrm{Net}$ releases are defined as the net number of patients released alive from the hospital in any one year.

4/ Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Census, <u>Current Population Reports</u>, Series P-25, No. 259, Provisional estimate for July 1, 1961.

 $\underline{5}/\mathrm{These}$ ratios are based on the average of the beginning and end of year resident pattent populations.

 $\frac{6}{7} p_{\rm GF}$ resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures,

 $\mathcal{U}_{\text{Per patient}}$ under treatment maintenance expenditures are based on the sum of resident patients at beginning of year plus all admissions (excluding transfers for hospitals reporting expenditures.

Symbol used: * Indicates data which are estimates or include

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1961 $^{1/2}$

		PA	TIENT MOVEMENT					PERSONNEL AND FINAL	NCIAL DATA	
	Per 100,000 Cı	vilian Population	Per 1,000	Average Resident	Patients ⁵		Total	Mair	atemance Expendit	ıres
Ştate	Total Admissions	Average Daily Resident Patient Population	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	Net Releases per 1,000 Total Admissions	Full-time Personnel End of Year	Total Amount	Per Resident Patient 5	Per Patient Under Treatment 7/
ted States	139.6	293.5	475.3	405,1	88,1	852,2	187,051	\$974,838,616	\$1,833.88	\$1,234,24
abana	97.1	227.2	428.1	335.2	71.4	782.9	1,681	7,818,498	1,042.05	736.62
aska	61.3	172.1	356.1	316.2	39.9	888.0	176	1,149,600	3,275.21	2,415.13
.zona	99.8	117.5	851.0	737.1	98.1	866.2	647	3,082,377	1,863.59	1,012.94
kansas	161.9	265.4	613.8	543.4	77.3	885.4	1,429	5,769,003	1,215.92	756.34
Lifornia	150.7	221.8	667.9	612.4	75.9	916.9	13,329	81,939,656	2,297.03	1,346.05
lorado	151.3	328.0	470.3	394.1	93.6	838.1	2,326	12,432,779	2,090.95	1,441.15
nnecticut ⁹ /	255.1*	322.7*	795.2*	687.4**	109.7*	864.3*	3,651	19,644,552	2,415.65*	1,353.01*
laware	229.2	380.3	598.8	489.0	118.5	816.6	764	3,302,552	1,921.21	1,190.97
strict of Columbia ¹⁰ /	235.3	788.5	276.0	250.7	59.8	908.1	3,409	20,629,538	2,907.21	2,222.77
orida	72.3	185.9	390.7	284.2	85.8	727.4	3,567	13,894,760	1,447.67	1,053.03
orgia	116.6	239.7	386.6	313.9	72.5	812.0	2,516	12,708,259	1,070.35	767.31
#311	98.8	195.8	504.7	451.1	45.1	893.8	425	2,571,572	2,188.57	1,458.63
aho	123.4	141.2	911.0	826.3	77.1	907.0	446	2,106,002	2,193.75	1,199.32
Linois	163.8	353.4	463.4	375.5	100.7	810.2	10,916	61,550,803	1,734.61	1,179.74
diana	99.1	251.2	394.8	302.0	88.9	764.9	4,825	22,373,431	1,901.21	1,365.57
rsas ntucky utstana ine	131.1 106.8 146.9 150.1 123.2	139.9 158.9 210.4 253.5 301.0	933.2 671.5 696.6 590.2 411.2	962.2 666.9 692.2 557.9 288.5	108.7 76.9 89.4 66.1 115.4	1,031.1 993.1 993.7 945.2 701.7	2,193 2,231 2,256 2,782 1,045	10,332,514 11,413,367 10,346,753 10,719,223 4,905,381	2,666.46 3,324.60 1,629.15 1,297.10 1,686.86	1,326.72 1,946.34 934.33 804.38 1,204.37
ryland ^{9/} ssachusetts chigan ^{11/} ssissippi	165.8* 211.4 85.9 142.3 148.1	274.9* 397.5 271.6 289.0 237.7	590.5* 532.3 317.2 493.6 617.8	486.7* 478.1 268.4 463.7 551.4	92.2* 99.1 56.8 101.3 58.2	824.3* 898.3 846.1 939.6 892.5	3,431* 8,489 7,045* 3,111* 1,593	17,170,238* 47,739,247 44,766,075 17,256,310* 4,733,022	2,022.17* 2,359.36 2,082.82 1,773.52* 908.28	1,249.11* 1,519.20 1,580.39 1,150.96* 558.27
ssour:	76.0	257.8	293.5	252.9	64.7	861.5	4,206	18,394,963	1,662.15	1,267.05
ntana	209.4	244.4	858.9	730.9	99.0	850.9	555	3,015,027	1,782.98	969.15
oraska	156.5	266.9	581.8	500.5	91.3	860.3	2,094	8,969,759	2,326.18	1,454.01
vada	116.5	182.8	644.0	533.1	64.4	827.8	164	1,061,162	1,878.16	1,171.26
e Hampshire	197.4	408.6	481.3	376.7	101.0	782.6	1,010	4,679,143	1,867.92	1,258.17
Jersey 9/ Mexico York rth Carolina rth Dakota	168.9*	347.5*	485.6*	361.5*	122.8*	744.4*	7,805*	43,810,451*	2,064.58*	1,389.09*
	86.5	92.7	937.3	767.1	110.9	818.4	431	1,840,539	2,051.88	1,080.76
	164.6	530.4	310.0	235.5	93.5	759.7	32,186	173,957,859	1,914.28	1,448.85
	158.1	214.1	739.4	643.1	88.4	869.9	3,224	15,722,114	1,604.30	925.27
	236.7	271.9	874.5	745.5	89.7	852.4	541	2,787,371	1,627.19	881.52
o	148.2	275.7	542,2	551.7	77.0	1,017.5	10,203	53,335,931	1,951.77	1,241.71
lahoma ^{g/}	120.8*	293.6*	411,4*	356.8*	84.5*	867.3*	2,321*	9,855,000*	1,418.80*	994.85*
egon	214.5	256.8	869,9	782.8	118.6	899.9	1,709	7,841,108	1,664.07	919.27
nnsylvania	83.8	339.4	247,5	180.6	81.8	729.8	12,969	63,225,308	1,643.36	1,312.72
ode Island	207.8	395.7	527,4	367.8	120.6	697.3	1,310	6,941,323	2,093.28	1,394.68
uth Carolina	130.2	277.8	468.0	374.4	85.5	800.0	1,676	7,105,511	1,082,99	738,77
uth Dakota	138.5	227.2	608.6	522.2	109.0	858.0	578	2,398,145	1,503,54	927,00
nnessee	152.3	221.3	684.4	603.7	84.7	882.1	1,876	8,340,299	1,053,87	621,53
xas	117.2	161.8	718.0	625.6	87.4	871.3	4,859	21,340,878	1,353,09	781,80
ah	69.8	103.3	663.6	721.5	97.6	1,087.3	467	2,408,851	2,493,63	1,406,22
reont	182,2	313.2	593,9	436.4	102.8	734.8	480	2,276,186	1,878.04	1,224.41
rginia	128,9	290.1	444,3	332.7	86.8	748.8	3,513	14,573,191	1,269.44	886.55
shington	104,7	216.1	485,8	496.1	84.2	1,021.2	2,446	15,176,429	2,432.12	1,590.82
st Virginia	166,0	300.9	554,4	455.9	95.3	822.4	1,201	5,473,650	1,008.22	652.56
sconsin	188,0	373.7	502,9	400.4	94.1	796.1	4,724	28,468,555	1,888.09	1,259.22
oming	112.3	173,2	641.7	565,1	151.5	880.7	220	1,283,351	2,110.77	1,244.76

mission Categories: The numbers in parenthesis are "First Admissions" (the old definition); the budger on U in parenthesis are "Admissions with No Frior input ent Experience" (the new definition), where the parenthesis are "Admissions with No Frior input ent Experience definition), where, not all of the non-AMP states were able to provide these data in 1961. Therefore, a U.S. call is not given since data from these two admission categories are not comparable and cannot be walmed, fefer to page I for an explanation of these admission categories.

rowisional Survey data from the public mental hospitals were used as estimates for the following tates: Connecticut, Maryland, New Jersey, Oklahoma and Michigan (personnel data for one hospital).

100 District of Columbia: Since a substantial propertion of the patients at the St. Elizabeth Happital are non-residents of the District of Columbia, computed only for residents of the District of Columbia, Districtor residents include 1,800 total admissions and 6,032 average daily resident patients. Water Comments of the Comments

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11/Winnesota: Maintenance expenditure data and personnel data were not available for one hospital. Therefore, 220 patients were excluded from the denominator in computing expenditures per resident patient and 190 patients were excluded from the denominator for computing expenditures per patient under treatment.

NOTE: Refer to Table 3 for state mental hospital data excluding the psychopathic hospital data for the following states: California, Colorado, Delaware, Indiana, lowa, Mosachusetts, Michigan, Mebraska, New York, Pennsylvania, Tennessee, Texas and Wisconsin.

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1962 $^{1/2}$

					PATIENT	MOVEMENT DATA			
			Admissions	(excluding trans	fers)		}		
State	Number of Hospitals	Resident Patients Beginning of Year	Total	No Prior Psychiatric Inpatient Experience	All Other	Net Releases 3/ Alive from Hospital	Deaths in Hospital	Resident Patients End of Year	Average Daily Resident Patient Population
United States	286	525,653	270,767	133,036	137,731	230,899	49,573	515,948	521,159
Alabama Alaska Arizona Arkansas California	2 1 1 1 1 12	7,569 351 1,664 4,716 35,904	3,286 129 1,596 3,023 25,348	2,102 99 836 1,660 11,151	1,184 30 760 1,363 14,197	2,731 179 1,307 3,077 22,829	556 8 203 412 2,726	7,568 293 1,750 4,250 35,697	7,568 295 1,756 4,532 34,916
Colorado Connecticut Delaware District of Columbia ^B / Florida	2 3 2 1 4	5,782 8,158 1,722 7,053 9,655	2,790 7,107 1,197 2,024 4,118	1,500 3,379 820 258 2,066	1,290 3,728 377 1,766 2,052	2,893 5,977 965 1,699 3,149	669 1,046 241 484 818	5,010 8,242 1,713 6,894 9,806	5,455 8,230 1,690 6,948 9,731
Georgia Hawaii Idaho Illinois Indiana	1 1 2 13 9	11,946 1,180 924 35,272 11,786	5,503 650 807 17,078 4,596	4,582 307 427 5,517 2,337	921 343 380 11,561 2,259	4,363 643 713 13,719 3,928	1,051 58 102 3,626 997	12,035 1,129 916 35,005 11,457	11,888 1,181 932 35,314 11,693
iowa 9/ Kansas Kentucky Louisiana Maine	6 3 4 3 2	3,622 3,310 6,097 8,152 2,888	3,963 2,524 4,774 5,592 1,506	1,827 1,435 2,121 2,731 956	2,136 1,089 2,653 2,861 550	3,857 2,420 4,436 5,625 1,218	335 235 621 502 325	3,393 3,179 5,814 7,617 2,851	3,608 3,259 5,960 7,890 2,919
Maryland Massachuseits Michigan 10/ Minnesota 11/ Mississippi	6 13 10 8 2	8,724 19,757 21,354 9,573 5,275	6,122 11,394 7,125 5,363 3,713	3,511 7,418 3,028* 2,374 2,330	2,611 3,976 4,097* 2,989 1,383	5,375 9,936 6,081 5,566 3,385	904 1,990 1,270 947 297	8,567 19,225 21,128 8,423 5,306	8,645 19,776 21,374 9,213 5,239
Missouri Montana Nebraska Nevada New Hampshire	5 1 4 1	10,987 1,719 3,868 572 2,518	3,612 1,188 2,380 363 1,273	1,869 674 1,192 96 748	1,743 514 1,188 267 525	2,865 1,093 2,102 317 1,026	748 190 378 43 298	10,986 1,624 3,768 575 2,467	11,070 1,656 3,815 577 2,523
New Jersey New Mexico New York North Garolina North Dakota	12 1 22 . 4	21,252 919 90,129 9,829 1,738	10,745 911 29,091 8,296 1,511	6,704 475 7,240 4,562 1,022	4,041 436 21,851 3,734 489	8,030 745 20,628 7,371 1,363	2,797 100 8,982 1,021 174	21,170 985 89,610 9,733 1,712	21,216 945 89,750 9,776 1,735
Ohio 12/ Oklahoma13/ Oregon Pennsylvania Rhode Island	21 4 3 18 1	24,062 6,841 4,441 38,096 3,365	16,332 3,190 3,773 10,535 1,756	8,702 1,691 1,984 6,215 993	7,630 1,499 1,789 4,320 763	14,830 2,975 3,552 7,534 1,294	1,995 560 519 3,619 470	23,569 6,496 4,143 37,478 3,357	23,912 6,669 4,360 37,862 3,366
South Carolina South Dakota Tennessee Texas Utah	1 1 7 9	6,596 1,579 7,941 15,952 907	3,464 1,155 6,284 12,285 793	2,454 705 3,041 6,772 354	1,010 450 3,243 5,513 439	2,763 1,084 5,396 10,608 765	600 175 764 1,640 98	6,697 1,475 8,065 15,989 837	6,598 1,527 8,019 15,822 882
Vermont Virginia Washington West Virginia 14/ Wisconsin	1 4 3 5 42	1,219 11,622 5,929 5,396* 15,148	738 5,053 3,187 3,375* 7,633	472 2,700 1,806 1,265* 4,181	266 2,353 1,381 2,110* 3,452	633 4,035 3,347 2,974* 7,093	116 1,104 585 582* 1,517	1,208 11,536 5,184 5,215* 14,171	1,228 11,520 5,604 5,279* 14,802
Wyoming	1	594	516	347	169	405	75	630	634

 $[\]mathcal{V}_{\text{These}}$ data were taken from the 1962 Provisional Survey of the public mental hospitals. Exceptions are given in footnotes.

 $^{2/\}rho_{\text{Oblic}}$ mental hospitals include the state, county and psychopathic hospitals.

 $[\]underline{3}/\mathrm{Net}$ releases are defined as the net number of patients released alive from the hospital in any one year.

²º Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Census, <u>Gurrent Population Reports</u>, Series P-225, No. 259, Provisional estimate For Usly 1, 1962.

 $[\]overline{\rm 5/These}$ ratios are based on the average of the beginning and end of year resident patient populations.

^{8/}Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.

^{2/}Per patient under treatment maintenance expenditures are based on the sum of resident patients at beginning of year plus all admissions (excluding transfor hospitals reporting expenditures.

^{**}District of Columbia: Since a substantial proportion of the patients at the St. Elizabeth Hospital are non-residents of the District of Columbia, total admission and resident patient rates per 100,000 population are computed only for residents of the District of Columbia. District residents include 1,842 total admissions and 5,000 everage daily resident patients.

^{9/}lowa: Security Mental Health Hospital has been divided into two sections, (physically ill (2) for mentally ill. Thus, at the present line there are on full-time employees and a number of part-time employees for the mental patte

ichigan: "No Prior Inpatient Experience" and "All Other" admissions public mental ospital data from Michigan for the 1961 Census of Patients in Mental Institutions are used as a basis for pro-rating the 1962 total admissions between these two legories.

immesota: Maintenance expenditure data and personnel data were not available for one sepital which closed 12/31/61, Therefore, 225 patients were excluded from the dependiture of the computing expenditures per resident patient and 222 patients were exluded from the denominator for computing expenditures per patient under treatment.

nes: Effective July 1, 1961, two of the facilities in Ohio (formerly classified as saw hespitals for the mentally ill) were designated as public institutions for the mentally retarded, Mentally ill patients in these two facilities (i.e. a total of state of the stat

13/Oklahoma: The 1961 Provisional Survey data were used as estimates of the maintenance expenditures for Oklahoma.

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14/ Best Virginia: 1960 and 1951 data were used as a basis for estimating 1982 data for one hospital. The admission categories for another hospital were pro-rated on the basis of the admission data from the three remaining hospitals.

Symbol used: * indicates data which are estimates or include estimates.

NOTE: Refer to Table 3 for state mental hospital data excluding the psychopathic hospital data for the following states: California, Colorado, Delaware, Indiana, lowa, Massachusetts, Michigan, Nebraska, New York, Pennsylvania, Tennessee, Texas and Wisconsin.

AUXILIARY TABLE CONTAINING DATA FOR PUBLIC MENTAL HOSPITALS $^{1/}$ EXOLUDING PSYCHOPATHIC HOSPITALS FOR THOSE STATES WHICH HAVE PSYCHOPATHIC HOSPITALS

					PATIENT M	OVEMENT DATA			
			Admissions	(excluding transf	ers)				
State	Number of Hospitals	Resident Patients Beginning of Year	Total	No Prior Psychiatric Inpatient Experience	All Other	Net Releases 3/ Alive from Hospital	Deaths in Hospital	Resident Patients End of Year	Average Daily Resident Patient Population
				1961 DATA]				
United States	273	535,793	247,672	8/	8∕	210,340	46,808	526,317	530,517
California Colorado Delaware Indiana Iowa	10 1 1 8 5	36,558 5,810 1,475 11,555 4,115	23,790 1,754 651 4,326 3,242	10,630 (758) (432) 2,290 (1,316)	13,160 (996) (219) 2,036 (1,926)	21,816 1,311 505 3,212 3,361	2,752 545 144 1,044 425	35,780 5,708 1,477 11,625 3,573	35,547 5,865 1,450 11,618 3,822
Massachusetts Michigan 9 Nebraska New York Pennsylvania	12 10 3 21 17	20,525 21,429 3,823 91,802 38,561	10,135 6,326 1,884 27,811 9,207	(6,126) 2,554 860 7,373 5,535	(4,009) 3,772 1,024 20,438 5,672	8,973 5,286 1,580 21,038 6,681	2,002 1,217 350 8,506 3,138	19,685 21,252 3,777 90,069 37,949	20,132 21,369 3,764 90,822 38,335
Tennessee #isconsin	4 41	7,922 14,990	5,109 7,273	2,498 3,883	2,611 3,390	4,471 5,732	674 1,420	7,886 15,111	7,863 15,043
				1962 DATA]				
United States	270	524,436	264,363	128,835	135,528	224,734	49,498	514,567	519,742
California Colorado Delaware Indiana Jowa	10 1 1 8 5	35,780 5,708 1,477 11,625 3,573	24,551 1,723 819 4,315 3,573	10,714 831 573 2,166 1,494	13,837 892 246 2,149 2,079	22,077 1,813 640 5,659 3,453	2,723 668 186 995 335	35,531 4,950 1,470 11,286 3,358	34,745 5,383 1,450 11,541 5,557
Massachusetts Michigan 19/ Nebraska New York Pennsylvania	12 9 3 21 17	19,685 21,252 3,777 90,069 37,949	10,765 6,626 2,002 28,671 10,302	6,888 2,677* 956 7,000 6,106	3,877 3,949* 1,046 21,671 4,196	9,354 5,579 1,715 20,212 7,303	1,990 1,270 375 8,978 3,618	19,106 21,029 3,689 89,550 37,330	19,658 21,250 3,750 89,692 37,712
Tennessee Texas Wisconsin	4 8 41	7,886 15,952 15,111	5,430 12,107 7,333	2,542 6,663 3,911	2,888 5,444 3,422	4,636 10,457 6,787	759 1,639 1,517	7,921 15,963 14,140	7,878 15,805 14,766

a Refer to Table 1 for footnotes pertinent to the above 1961 data.

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 $[\]fbox{$\overline{\mathbb{D}}$}$ Refer to Table 2 for footnotes pertinent to the above 1962 data.

TABLE 3 (Continued)

auxiliary table containing data for public mental hospitals \mathcal{W} excluding psychopathic hospitals for those states which have psychopathic hospitals

		PATI	ENT MOVEMENT	RAT IOS				PERSONNEL AND FIN	ANCIAL DATA	1
	Per 100,000 C	ivilian Population	Per 1,00	O Average Reside	ont Patients 5/		Total	Mai	ntenance Expendit	ures
State	Total Admissions	Average Daily Resident Patient Population	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	Net Releases per 1,000 Total Admissions	Full-time Personnel End of Year	Total Amount	Per Resident Patient 5	Per Patient Under Treatment
				1961	DATA					
ed States	136.7	292.8	466.4	396,1	88.1	849.3	183,802	\$959,350,030	\$1,809.08	\$1,224.79
fornia rado «achusetts igan 2) saka fork fork splvania essee onsin	147.9 96.7 144.0 92.4 117.1 199.1 79.9 130.4 162.5 81.2	221.0 \$25.5 \$20.8 248.0 158.0 595.5 270.0 260.5 550.1 358.1 219.9 372.8	657.7 504.6 441.1 373.3 843.4 504.1 296.4 495.8 305.8 240.7 646.4 483.2	605.2 227.6 342.1 277.1 874.5 446.3 247.7 415.8 251.5 174.6 565.7 380.8	76.1 94.6 97.6 90.1 110.0 99.6 57.0 92.1 93.5 82.0 85.3 94.3	917.0 747.4 775.7 742.5 1,036.7 885.6 838.6 838.6 556.5 725.6	12,802 2,149 573 4,436 2,034 8,177 6,745* 1,888 32,084 12,330 1,725 4,628	79,799,419 11,258,758 2,556,415 20,550,604 9,767,706 46,262,845 42,773,654 6,027,027 173,687,039 59,946,528 7,906,935 27,845,740	2,244,90 1,919,65 1,749,25 1,768,86 2,555,65 2,297,98 2,001,67 2,132,58 1,912,39 1,563,75 1,005,59 1,851,08	1,322.32 1,488.46 1,193.05 1,294.04 1,327.68 1,508.90 1,541.12 1,406.52 1,452.07 1,254.95 606.78 1,250.76
				1962	DATA					
ed States	143.9	282.9	508.9	432.6	95,3	850.1	185,414	\$1,013,777,184*	\$1,951.38*	\$1,285.59*
fornia rado «are ana	147.4 92.3 177.7 91.7 128.8	208,6 288,3 314,5 245,4 128,2	688.6 323.3 555.6 376.7 1,030.9	619.2 340.2 434.2 319.4 996.2	76.4 125.4 126.2 86.9 96.7	899.2 1,052.2 781.4 848.0 966.4	12,969 2,322 561 4,733 2,038	87,920,144 12,918,361 2,979,418 21,479,782 9,982,805	2,530.44 2,399.84 2,054.77 1,861.17 2,806.52	1,457.30 1,738.44 1,297.66 1,347.54 1,396.98
achusetts igan 10 aska fork sylvania	210.7 83.2 136.7 165.3 90.7	384.7 266.7 254.6 517.1 332.1	555.0 313.4 536.3 319.2 273.7	482.3 263.9 459.4 225.1 194.0	102,6 60,1 100,5 100,0 96,1	868.9 842.0 856.6 705.0 708.9	8,345 6,556 1,953 32,271 12,654	47,473,885 44,895,102 8,096,939 181,000,000 72,299,667	2,414.99 2,112.71 2,170.76 2,018.02 1,917.15	1,559.08 1,610.41 1,401.10 1,524.34 1,498.41
ossee B onsin	150.6 122.0 179.4	218.5 159.2 361.2	687.0 758.7 501.4	586.5 655.3 464.0	96.0 102.7 103.7	853.8 863.7 925.5	1,777 5,235 4,795	8,735,562 22,485,967 28,653,029	1,108.86 1,422.89 1,940.47	656.02 801.38 1,276.65

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PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS UNITED STATES

1963

I. PURPOSE

At the national, state, and local levels, because of the increased emphasis on the area of mental illness, there have arisen pressing requests, from members of Congress, State Legislatures, project planners, and other interested persons, for current data—data which are necessary to plan for facilities and services, research and training, legislation and financing. In an effort to provide current data, these survey statistics for certain patient movement and administrative categories are collected and published annually, by state, for the state and county mental hospitals.

Prior to 1963, the state and county mental hospitals were termed "public mental hospitals" and included "psychopathic" (short term intensive treatment hospitals operated by the state) and "public prolonged-care" (state and county operated) mental hospitals. As the functions of the psychopathic hospitals are also performed in many of the intensive treatment units of other state mental hospitals, the Model Reporting Area states recommended that the distinction between "psychopathic hospitals" and "state mental hospitals" no longer be made, and that the data for these hospitals be combined, thus eliminating the terms "psychopathic" and "public prolonged-care". Beginning with this 1963 report, the "public mental hospitals" will be referred to as "state and county mental hospitals", to make it clear that other public facilities such as Veterans Administration hospitals, military hospitals, Public Health Service hospitals and territorial hospitals are not included.

Certain trend data for the United States, covering the period 1956 through 1963 may

be found in Table A. A graph depicts trends for some of the patient movement categories from 1946 through 1963. The data, by state for the current year, fiscal 1963, are found in Table 1. These data were obtained from the 1963 "Preliminary Survey of State and County Mental Hospitals". As these data are provisional, they are subject to some change. Data in greater detail-first admissions and resident patients by age, sex and mental disorder; personnel by occupation; maintenance expenditure by type-will appear in future publications in the series, Patients in Mental Institutions, Part II (NIMH, U. S. PHS). Data for patients in the private mental hospitals, data for the psychiatric patients in general hospitals, and for patients in the public and private institutions for the mentally retarded will be available in other parts of the series. Data for patients resident in Veterans Administration hospitals and for patients served by psychiatric outpatient clinics will be available in separate publications prepared by the Biometrics Branch of the National Institute of Mental Health.

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

Admissions: This category includes three admission classifications.
 Admissions With No, Prior Psychiatric

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Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities-state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

Net		Resident	1	All Admis-	1	Deaths		Resident
		Patients						Patients
Alive from	=	Beginning	+	excluding		Hospital	-	End of
Hospital		of Year		Transfers	ı	Hospital		Year

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios per 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example:

Suppose that the resident patient populations in State A and State B each decreased by 0.6 percent (or 6 per 1,000).

Movement Category	State A	State E
Admissions	323.7	522.2
Net Releases	229.5	454.8
Deaths	99.9	73.5

These ratios show that State B has much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 Ad missions Another approach to the problem of analyzing patient movement data is given by relating net releases to admissions (a group with a high probability of release). Preliminary data obtained from 14 Model Reporting Area states indicated that 85 percent of the net releases in a given year occurred to patients whose length of hospital stay was less than one year (i.e. largely admissions during the year). The remaining 15 percent of net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year. Thus, exclusion of these patients from the denominator limits the usefulness of this

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. The ratio of expenditures to "patients under treatment' does take into account the admissions during the year. The actual number of patients under treatment during the year is equal to the number of resident patients at the beginning of the year plus all admissions during the year and all returns from extramural care among patients on extramural care at the beginning of the year. Since this latter category of data is not available nationally, the number of resident patients at the beginning of the year plus all admissions (excluding transfers) has been used as the best available estimate of "patients under treatment. "

It should be pointed out that these figures do not represent expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. These costs have been included for greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 1.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

However, as has been emphasized in Sections A4-A6, meaningful interstate comparisons cannot be made without more detailed breakdowns of movement categories by such variables as age, sex, diagnosis, and time on books. Data on most of these variables as well as more detail on personnel and maintenance expenditures will be available in Patients in Mental Institutions (NIMH, U.S. PHS). This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic

programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

III. TRENDS

Control of the control of

For the 8th consecutive year, the RESI-DENT PATIENT POPULATION decreased in the State and county mental hospitals. A decrease occurred in 40 states (including the District of Columbia). The 1963 figure of 504,947 resident patients represents a percent decrease of 2.1 from the 1962 figure of 515,700 patients. Since the downward trend began in 1956, (there were 558,922 resident patients at the end of 1955) there has been a reduction in this population of 53,975 or 9.7 percent (or an average of 1.2 percent per year). The greatest percent change (2.2 percent) occurred between 1961 and 1962.

The current year, 1963, shows a continuation of the upward trend in TOTAL AD-MISSIONS which began in the mid-1940's. The total admissions rose from 267,068 in 1962 to 285,244 in 1963—an increase of 18,176 patients or 6.8 percent. Forty-one states showed increases in the number of admissions.

The number of NET RELEASES, also, has been rising since the mid-1940's. From 1955 to 1963 the number almost doubled-from 126,498 net releases to 247,228.

DEATHS, with the exception of a dropin 1961, have shown little variation over the last five years. The 1963 figure of 49,039 was a decrease of only 528 patients from the 1962 number.

In 1955 there were 146,392 full-time PERSONNEL—a ratio of 3.8 resident patients per full-time employee. The number of personnel has steadily risen over the years, reaching a total of 194,516 in 1963—

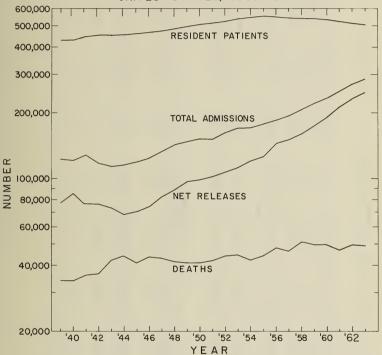
a ratio of 2.6 resident patients per fulltime employee. The MAINTENANCE EX-PENDITURES has also continued to climb during this interval—from \$618,087,247 (\$3.06 per resident patient per day) in 1955 to \$1,084,713,981 (\$5.81 per resident patient per day) in 1963. The 1963 ratios varied among states ranging from \$2.84 to \$19,05.

Trends, since 1955, in the data given in this report are indicated numerically in Table A. Also shown are the same data expressed as index numbers where 1955 is the base year. Thus, percent change since 1955 can be read directly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance the 1958 index number for admissions is 117.9. This means that admissions in that year were 17.9 percent greater than 1955 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1955 was selected as the base year primarily because the number of resident patients reached its maximum during that year. Also, the admission, net release, and death data were not atypical during 1955. Percentage change between the data for any two years other than 1955 may be computed by obtaining the difference between the two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net releases in 1959 and 1960 are 139.5 and 151.3. The percent change between 1959 and 1960 is given by:

$$\frac{151.3 - 139.5}{139.5} = \frac{11.8}{139.5} = 8.46$$

Therefore, there was an 8.5 percent increase in net release between 1959 and 1960.

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, STATE AND COUNTY MENTAL HOSPITALS UNITED STATES, 1939-163



RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, STATE AND COUNTY MENTAL HOSPITALS UNITED STATES, 1955-1963 1/

1963	285,244 247,228 49,039 504,947	194,516	\$1,084,713,981	2,119.79 5.81	1,353.84
1962	267,068 227,368 49,567 515,700	191,676	\$1,029,976,737	1,990,64	1,299.43
1961	253,005 215,600 46,881 527,535	187,051	\$974,838,616	1,833.88	1,234.24
1960	234,846 191,415 49,751 535,796	181,957	\$916,482,804	1,701.21	1,179.57
1959	222,791 176,411 49,647 541,883	174,635	\$849,492,595	1,567.39	1,106.43
1958	209,823 161,884 51,383 545,182	169,438	\$805,861,786	1,475.26	1,063.38
1957	194,497 150,413 46,848 548,626	162,753	\$731,875,462	1,332,31	981.21
1956	185,597 145,313 48,236 551,390	153,499	\$662,994,142	1,195.01	890.47
1955	178,003 126,498 44,384 558,922	146,392	\$618,087,247	1,116.59	849.31
ITEM	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year	Maintenance Expenditures Per Resident Patient	Per Year Per Day	Per Day

142.1 170.4 105.6 94.4 127.8 145.3 164.2 164.1 151.9 151.3 112.1 95.9 124.3 152,4 138.9 125.2 139.5 111.9 97.0 119.3 140.4 130.3 117.9 128.0 115.8 97.5 115.7 132.1 125.2 124.9 INDEX NUMBERS 109.3 118.9 105.6 98.2 111.2 119.3 115.5 104.3 114.9 108.7 98.7 104.9 107.0 104.8 100.0 100.0 100.0 100.0 Net Releases Deaths in Hospital Resident Patients End of Year Per Day Per Patient Under Treatment Personnel (full time) at End Maintenance Expenditures Per Resident Patient All Admissions Per Year Per Year

160.2 195.4 110.5 90.3

150.0 179.7 1111.7 92.3

132.9 189.8 189.9 159.4 159.2

130.9 166.6 178.3 153.0

¹⁹⁵⁵⁻¹⁹⁶² data from Patients in Nental Institutions. These data include estimates for under-reporting wherever possible. 1963 data from the Provisional Survey of Public Mental Hospital.

TABLE 1 PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1963 $^{1\!\!\!/}$ STATE AND COUNTY MENTAL HOSPITALS

					NT MOVEMENT DAT			
State	Number of Hospitals	Resident Patients Beginning of Year	Total	No Prior Psychiatric Inpatient Experience	With Prior Admission to Hospitals in Same System	All Other	Net 2/ Releases Alive from Hospital	Deaths in Hospital
United States	285	515,970	285,244	130,0253/	97,3153/	52,025 ³ /	247,228	49,039
Alabama Alaska Arizona Arkansas California	2 2 1 1 12	7,568 293 1,750 4,250 35,895	3,795 162 1,647 3,216 26,446	2,393 91 867 1,753 8,261*	1,338 52 469 895 9,186*	64 19 311 568 8,999*	3,19Q 154 1,458 3,523 24,533	626 5 215 405 2,683
Colorado Connecticut Delaware District of Columbia Florida	2 3 2 1 4	5,010 8,242* 1,703 6,894 9,806	3,045 7,664* 1,143 1,930 4,370	1,920* 3,617* 765 276* 1,524	931* 3,197* 15 585* 956	194* 850* 363 1,069* 1,890	3,303 6,427* 975 1,650 3,485	521 1,094* 185 496 869
Georgia Hawaii Idaho Illinois Indiana	1 1 2 13	12,035 1,087 916 35,007 11,457	6,053 456 847 16,934* 4,502	4,804 121 425 5,434* 2,297	1,048 172 308 7,321* 1,402	201 163 114 4,179* 803	4,925 437 797 13,867* 3,796	1,149 70 99 3,632* 958
lowa Kansas Kentucky Louisiana Waine	6 3 4 3 2	3,393 3,179 5,859 7,593 2,851	4,425 2,608 4,978 5,614 1,627	1,987 1,511 2,224 2,759* 1,047	1,638 833 1,851 1,968* 496*	800 264 903 887* 84*	4,385 2,583 4,776 5,701* 1,315	365 238 608 507* 325
Maryland 4/ Massachusetts Michigan Minnesota Mississippi 5/	6 13 10 7 2	8,567 19,225 21,125 8,423 5,306	7,143 12,199* 7,614 5,546* 3,927	4,192 6,220* 3,287* 2,459*	2,668* 5,858* 2,463* 2,354*	283* 121* 1,864* 733*	6,238 10,946* 7,217 5,471* 3,474	966 2,004 1,165 749* 348
Missouri Montana Nebraska Nevada New Hampshire	5 1 4 1 1	10,990 1,624 3,768 575 2,467	3,751 1,419 2,555 403 1,422	1,833 818 1,237 231 647	914 440 1,001 81 441	1,004 161 317 91 334	3,076 1,290 2,184 371 1,133	851 166 380 57 291
New Jersey New Mexico New York North Carolina North Dakota	12 1 22 4 1	21,150 985 89,610 9,733 1,712	10,707* 1,008 31,884 9,257 1,407	6,549* 642 8,608* 5,137 952	3,523* 309 11,347* 3,339 5	635* 57 11,929* 781 450	8,436* 867 23,169 8,119 1,417	2,727 103 9,484 994 139
Ohio <u>6</u> / Oklahoma Oregon Pennsylvania Rhode Island <u>7</u> /	20 4 3 19 1	23,503 6,495 4,143 37,478 3,357	16,746 3,535 3,722 10,360 1,952	8,294 1,863 1,943 5,760	8,090* 1,044 1,337 1,377	362* 628 442 3,223	15,514 3,138 3,677 7,420 1,541	2,088 559 487 3,213 452
South Carolina South Dakota Tennessee Texas Utah	1 1 6 9 1	6,697 1,513 8,065 15,888 837	3,514 1,448 6,419 13,070 874	2,450 835 2,922 7,013 362	956 600 2,628 4,615 314	108 13 869 1,442 198	2,956 1,154 5,558 11,515 1,011	597 188 750 1,534 87
Vermont Virginia Washington West Virginia Wisconsin	1 4 3 5 42	1,208 11,536 5,184 5,217 14,171	679 5,389 3,444 3,949 7,876	413 2,862 1,650* 1,838 4,573	266 1,695 1,244* 845 2,761	0 832 550* 1,266 542	535 4,382 3,456 3,460 6,757	132 1,091 492 481 1,370
Wyoming	1	630	563	359	139	65	466	44

NOTE: Refer to page 10 for footnotes.

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1963 $^{1\!\!\!\!\!\!\!/}$ STATE AND COUNTY MENTAL HOSPITALS

				PERSONNEL AND F	INANCIAL DATA	
			T.1.3		nance Expenditur	es
State	Resident Patients End of Year	Average Daily Resident Patient Population	Total Full-time Personnel End of Year	Total Amount	Per Resident Patient 8/	Per Patient Under 9/ Treatment
United States	504,947	511,708	194,516	\$1,084,713,981	\$2,119.79	\$1,353.84
Alabama	7,547	7,557	1,935	9,522,080	1,260.03	837.99
Alaska	296	304	350	2,113,999	6,953.94	4,646.15
Arizona	1,724	1,726	661	3,883,386	2,249.93	1,143.18
Arkansas	3,538	3,867	1,531	6,658,409	1,721.85	891.83
California	35,125	35,510*	13,733	100,093,659	2,818.75*	1,605.58
Colorado	4,231	4,678	2,917	16,513,880	3,530.12	2,050.14
Connecticut	8,385*	8,314*	3,601*	21,535,482*	2,590.27*	1,353.92*
Delaware	1,686	1,692	821*	3,625,833*	2,142.93*	1,274.01*
District of Columbia	6,678	6,798	3,890	25,107,713	3,693.40	2,845.39
Florida	9,822	9,821	4,192	17,094,283	1,740.58	1,205.86
Georgia	12,014	11,878	2,688	14,080,699	1,185.44	778.46
Hawaii	1,036	1,060	395	2,841,416	2,680.58	1,841.49
Idaho	867	879	456	2,508,842	2,854.20	1,423.05
Illinois	34,442*	34,965*	11,713*	66,554,942*	1,903.47*	1,281.36*
Indiana	11,205	11,392	5,175	24,440,932	2,145.45	1,531.48
lowa	3,068	3,302	2,169	11,082,980* 12,164,683 11,145,496* 11,669,276 5,320,091	3,356.44*	1,417.62*
Kansas	2,966	3,086	2,246		3,941.89	2,102.07
Kentucky	5,453	5,688	2,123*		1,959.48*	1,028.47*
Louisiana	6,999*	7,396	2,706		1,577.78	883.57
Maine	2,838	2,901	1,044		1,833.88	1,188.05
Maryland	8,506	8,420	3,470	18,895,883	2,244.17	1,202.79
Massachusetts	18,474	19,007	8,612	46,732,744*	2,458.71*	1,487.17*
Michigan	20,357	20,900	6,666*	49,737,377*	2,379.78*	1,730.66*
Minnesota	7,749	8,138	2,977*	19,036,651	2,339.23	1,362.78*
Mississippi	5,411	5,329	1,777	5,531,252	1,037.95	599.07
Missouri	10,814	10,847	4,612	21,167,568	1,951.47	1,435.97
Montana	1,587	1,600	578	3,235,289	2,022.06	1,063.19
Nebraska	3,759	3,811	2,231*	9,442,328	2,477.65	1,493.33
Nevada	550	557	190	1,391,085	2,497.46	1,422.38
New Hampshire	2,465	2,512	985	5,095,725	2,028.55	1,310.29
New Jersey	20,694	21,199	8,926*	45,526,976	2,147.60	1,429,10*
New Mexico	1,023	1,011	425	2,083,214	2,060.55	1,045,27
New York	88,841	89,027	33,169	200,743,834	2,254.86	1,652,29
North Carolina	9,877	9,810	3,437	18,044,399	1,839.39	950,21
North Dakota	1,563	1,632	587	3,531,484	2,163.90	1,132,25
Ohio 6/	22,647	23,286	8,478	45,222,680*	1,942.05*	1,123.57*
Oklahoma	6,333	6,410	2,476*	9,895,966*	1,543.83*	986.64*
Oregon	3,701	3,974	1,657	9,617,155	2,420.02	1,222.78
Pennsylvania	37,205	37,517	13,753	74,438,459	1,984.13	1,556.05
Rhode Island	3,316	3,362	1,460	7,690,869*	2,287.59*	1,448.65*
South Carolina	6,658	6,580	1,848	8,214,138	1,248.35	804.44
South Dakota	1,619	1,535	684	2,833,294	1,845.79	956.87
Tennessee	8,176	8,150	2,215	9,553,827*	1,172.25*	659.61*
Texas	15,909	15,853	5,563	24,511,998	1,546.21	846.47
Utah	613	723	475	2,506,471	3,466.76	1,464.92
Vermont	1,220	1,240	499	2,701,410	2,178.56	1,431.59
Virginia	11,452	11,561	3,627	16,309,911	1,410.77	963.66
Washington	4,680	4,984	2,331	14,540,577	2,917.45	1,685.28
West Virginia	5,225	5,223	1,341	6,332,584	1,212.44	690.88
Wisconsin	13,920	14,026	4,849	30,824,730	2,197.69	1,398.14
Wyoming	683	670	272	1,366,022	2,038.84	1,145.03

NOTE: Refer to page 10 for footnotes.

TABLE 1 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1963 $^{1\!\!/}$

		PA	TIENT MOVEMENT	RATIOS		
	Per 100,000 Civi	lian Population 19		verage Resident	Patients 11/	
State	Total Admissions	Average Daily Resident Patient Population	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	Net Releases per 1,000 Total Admissions
United States	152,9	274.3	558.8	484,3	96.1	866.7
Alabama	114.2	227.4	502.1	422.1	82.8	840.6
Alaska	75.3	141.4	549.2	522.0	16.9	950.6
Arizona	107.0	112.2	948.2	839.4	123.8	885.2
Arkansas	174.4	209.7	825.9	904.7	104.0	1,095.5
California	153.0	205.5*	744.7	690.9	75.6	927.7
Colorado	160.0	245.8	658.9	714.8	112.7	1,084.7
Connecticut	288.7*	313.1*	921.8*	773.0*	131.6*	838.6*
Delaware	244.8	362.3	674.3	575.2	109.1	853.0
District of Columbia 12/	201.1	691.0	284.4	243.1	73.1	854.9
Florida	78.7	176.8	445.3	355.1	88.5	797.5
Georgia	149.4	293.2	503.4	409.6	95.6	813.6
Hawaii	72.4	168.3	429.4	411.5	65.9	958.3
Idaho	120.0	124.5	949.6	893.5	111.0	941.0
Illinois	167.1*	345.1*	487.7*	399.3*	104.6*	818.9*
Indiana	96.1	243.2	397.3	335.0	84.5	843.2
lowa	159.3	118.9	1,369.5	1,357.2	113.0	991.0
Kansas	119.3	141.1	848.7	840.5	77.4	990.4
Kentucky	163.0	186.2	880.1	844.4	107.5	959.4
Louisiana	165.9	218.6	769.5*	781.4*	69.5*	1,015.5*
Maine	169.0	301.2	571.9	462.2	114.2	808.2
Maryland	221.4	260.9	836.7	730.7	113.2	873.3
Massachusetts	235.7*	367.3	647.2*	580.7*	106.3	897.3*
Michigan	94.1	258.3	367.1	348.0	56.2	947.9
Minnesota	158.7*	232.9	685.9*	676.6*	92.6*	986.5*
Mississippi	173.6	235.6	732.8	648.3	64.9	884.6
Missouri	87.3	252.4	344.1	282,2	78.1	820.0
Montana	203.6	229.6	883.6	803,2	103.4	909.1
Nebraska	177.2	264.3	678.8	580,2	101.0	854.8
Nevada	111.9	154.7	715.8	659,0	101.2	920.6
New Hampshire	229.4	405.2	576.6	459,4	118.0	796.8
New Jersey	166.7*	330.2	511.8*	403.2*	130.3	787.9*
New Mexico	101.2	101.5	1,004.0	863.5	102.6	860.1
New York	180.5	504.0	357.3	259.7	106.3	726.7
North Carolina	198.3	210.1	944.1	828.0	101.4	877.1
North Dakota	225.8	262.0	859.0	865.1	84.9	1,007.1
Ohio 6/	164.9	229.4	725.7	672.3	90.5	926.4
Oklahoma	144.2	261.4	551.1	489.2	87.2	887.7
Oregon	204.5	218.4	949.0	937.5	124.2	987.9
Pennsylvania	90.8	329.0	277.4	198.7	86.0	716.2
Rhode Island	227.5	391.8	585.0	461.8	135.5	789.4
South Carolina	145.1	271.7	526.2	442.6	89.4	841,2
South Dakota	198.1	210.0	924.6	736.9	120.1	797.0
Tennessee	175.2	222.4	790.4	684.4	92.4	865.9
Texas	128.9	156.4	822.1	724.3	96.5	881.0
Utah	89.4	73.9	1,205.5	1,394.5	120.0	1,156.8
Vermont	174.1	317.9	559.3	440.7	108.7	787.9
Virginia	128.6	276.0	468.9	381.2	94.9	813.1
Washington	115.1	166.6	698.3	700.7	99.8	1,003.5
West Virginia	222.2	293.9	756.4	662.7	92.1	876.2
Wisconsin	194.2	345.8	560.7	481.1	97.5	857.9
Wyoming	169.1	201,2	856.9	709.3	67.0	827.7

1

NOTE: Refer to page 10 for footnotes.

- Net releases are defined as the net number of patients released alive from the hospital in any one year.
- 3/ Type of admission data were not available, for this table, for 5,879 patients. (See footnotes 5 and 7.) Therefore, for the U.S. total, the number of patients in the three admission categories will not add to the total number of admissions.
- 4/ Maryland: "Admissions with prior admissions to hospitals in the same state system" and "all other admissions" public mental hospital data from Maryland for the 1962 Census of Patients in Mental Institutions were used as a basis for pro-rating the 1963 total admissions between these two categories.
- Mississippi: Type of admission data were not available for one state hospital. Data reported from the other state hospital are as follows:

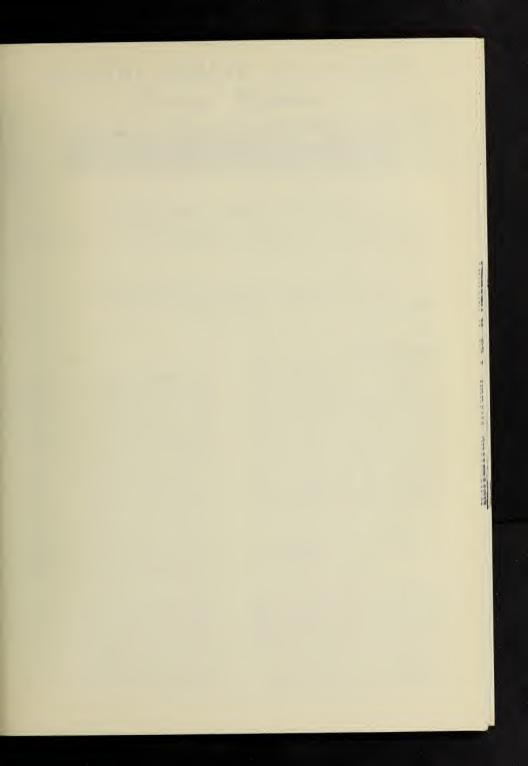
6/ Ohio: Effective July 1, 1961, two of the facilities in Ohio (formerly classified as state hospitals for mentally ill) were designated as public institutions for the mentally retarded. Mentally ill patients in these two facilities (i.e. a total of 717 average daily resident patients) were reported and are included in the above table. However, personnel and financial data corresponding to these mentally ill patients are not available. In addition, one other facility classified as a mental hospital has mentally ill and mentally retarded patients. For this facility only the number of mentally ill patients was reported, thus excluding the number of mentally retarded patients. However, the personnel and financial data reported pertained to all patients in the hospital.

- ?/ Rhode Island: Data by type of admission are not available.
- 8/ Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- 9/ Per patient under treatment maintenance expenditure are based on the sum of resident patients at beginning of year plus all admissions (excluding transfers) for hospitals reporting expenditures.
- 10/ Admission and average daily resident patient rates are per 100,000 estimated civilian population. Source: U.S. Bureau of the Census, <u>Current Population Reports</u>, Series P-25, No. 273. Provisional estimate for July 1, 1963.
- 11/ These ratios are based on the average of the beginning and end of year resident patient population
- District of Columbia: Since a substantial proportion of the patients at the St, Elizabeths Hospital are non-residents of the District of Columbia, total admission and resident patient rates per 100,000 population are computed only for residents of the District of Columbia.

 District residents include 1,583 total admissions and 5,458 average daily resident patients.

Symbols used: * Indicates data which are estimates or include estimates.

--- Data not available.



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MENTAL HEALTH STATISTICS

Current Reports

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

3

National Clearinghouse for Mental Health Information

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Series MHB-H-9

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS

UNITED STATES

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1964

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I. PURPOSE

Since the passage of the National Mental Health Act by Congress in 1946, the National Institute of Mental Health has been responsible for collecting and publishing data on the hospitalized mentally ill in the United States -- data necessary to answer requests from members of Congress, State legislators, project planners, hospital administrators and other persons interested in the field of mental illness. These data are extremely useful, for example, in planning for facilities and services, research and training, and legislation and financing. In an effort to provide current data, the provisional survey statistics tabulated in these Mental Health Statistics --Current Reports (Series MHB-H) are collected and published annually for certain patient movement and administrative categories, by state, for the state and county mental hospitals. (Similar data are published for the Public Institutions for the Mentally Retarded in the Series MHB-I)

Certain trend data for the United States, covering the period 1956 through 1964 may be found in Table A. A graph depicts trends for some of the patient movement categories from 1938 through 1964. The data, by state for the current year, fiscal 1964, are found in Table 1. These data were obtained from the 1964 "Preliminary Survey of State and County Mental Hospitals". As these data are provisional, they are subject to some change. Data in greater detail-

admissions with no prior psychiatric inpatient experience and resident patients by age, sex and mental disorder; personnel by occupation; maintenance expenditure by type -- will appear in future publications in the series, Patients in Mental Institutions, Part II (NIMH, U.S. PHS). Data for patients in the private mental hospitals, data for the psychiatric patients in general hospitals, and for patients in the public and private institutions for the mentally retarded will be available in other parts of the series. Data for patients resident in Veterans Administration hospitals and for patients served by psychiatric outpatient clinics will be available in separate publications prepared by the Biometrics Branch of the National Institute of Mental Health.

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

l. Admissions: This category includes three admission classifications.
Admissions With No Prior Psychiatric

Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities-state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

1	Net Releases Alive from Hospital	1=	Resident Patients Beginning of Year	+	All Admis- sions excluding	-	Deaths in Hospital	-	Resident Patients End of	
- 1	Hospital		of Year		Transfers	ш			Year	

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios per 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example:

Suppose that the resident patient populations in State A and State B each decreased by 0.6 percent (or 6 per 1,000).

Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the patient movement ratios are computed to be the following:

Movement Category	State A	State B
Admissions	323.7	522,2
Net Releases	229.5	454.8
Deaths	99.9	73.5

These ratios show that State Bhas much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 Admissions The ratio "net releases per 1,000 admissions" is a convenient index for summarizing the live net movement into and out of the hospital. For example, if the ratio is less than 100, there were more admissions than net releases. Note that this index does not relate net releases to admissions in the sense of a percent or rate because not all releases during a year derive from the admissions during that year. Some of these net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year.

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. If the patient base is enlarged to include admissions during the year the resulting sum is the best available estimate of patients under treatment during the year. This quantity is actually defined as:

Patients Under	=	Resident Patient Beginning	sions	Returns from Leave among Patients on Leave Beginning	
Treatment		Beginning	Transfers	of Vear	ı

The estimate, however, does not include the last term since these data are not available nationally.

The ratio of expenditures to patients under treatment appears to be a more realistic measure, but it does not solve the problem completely. While a larger share of the expenditures is required for the care of admissions, the index weights both admissions and resident patients equally,

The expenditure figures and ratios are not necessarily expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. County data have been included to insure greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 1.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

For example, the number of admissions per 100,000 civilian population for the United States was 160--individual state ratios varied from 67 to 296. The net release ratios also show considerable variation, Net releases per 1,000 average resident patients ranged from 224 to 2,029; net releases per 1,000 total admissions, from

767 to 1,039. The drop in the resident patient population did not occur uniformly in all states. While the resident population decreased in 37 states including the District of Columbia, two states showed little change and twelve states had an increase in the number of residents. In addition, a high of \$12.24 per patient under treatment per day to a low of \$1.73 further points out the considerable variation existing among states.

However, as has been emphasized in Sections A4-A6, comparison of state ratios, while serving to highlight areas of differences, are limited. More detailed classifications of movement categories by such variables as age, sex, diagnosis and time on books are needed. Data on most of these variables as well as more detail on personnel and maintenance expenditures will be available in Patients in Mental Institutions (NIMH, U.S. PHS). This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of the rapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate vari-

III. TRENDS

Paradal Barrata

For the 9th consecutive year, the <u>RESI-DENT PATIENT POPULATION</u> in the State and county mental hospitals decreased—this has occurred in spite of increases in the general population. Prior to 1956, the trend had been one of increasing numbers of residents, with the exception of only one year (1943) which saw a slight decrease. With the decrease of 2.8 percent in 1964, the number of residents has dropped below 500,000.

Correspondingly, the number of NET RELEASES has continued to climb--atrend which began in the mid 1940's. In less than 10 years (1955-1964), the number has more than doubled. In 1964, there were 271,506 net releases as compared with 126,498 in 1955.

Along with increasing numbers of net releases and decreasing numbers of resident patients, the number of <u>TOTAL ADMISSIONS</u> has increased steadily, continuing another trend which began in the mid 1940's. In 1964, for the first time, the number of admissions exceeded 300,000. This has resulted in a 1964 admission rate of 160 patients per 100,000 civilian population, compared with 110 in 1955.

The number of <u>DEATHS</u> in the hospitals has continued to fluctuate.-up one year and down the next. However, in 1964 there was a drop of almost 4,000 in this number.

There are now almost 200,000 <u>FULL</u> <u>TIME PERSONNEL</u> caring for the mentally ill in our 289 State and county hospitals. The ratio of personnel per patients has been an ever increasing one and in 1964 it reached one full time employee per every 2.5 patients.

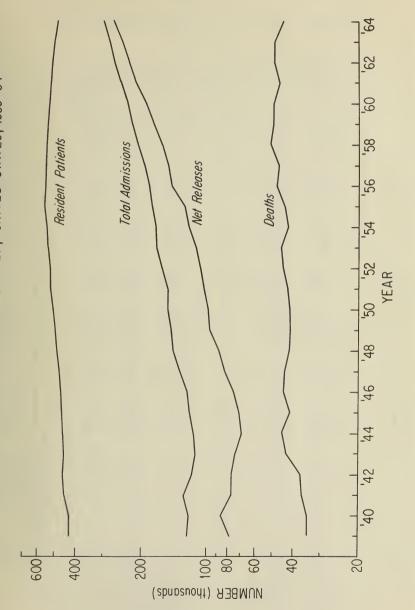
The MAINTENANCE EXPENDITURES for the care of these patients have also greatly increased-going over a billion dollars in 1962-and still climbing. Converting these data into ratios, in 1964, \$3.83 was spent each day per patient under treatment as compared with \$2.33 in 1955.

Trends in certain patient movement categories are depicted graphically for 1938-1964 on page 5. These trends, as well as others, are indicated numerically for the years 1955-1964 in Table A and include estimates for under reporting wherever possible. Therefore, these totals, which are the most complete available, supersede totals published in prior reports. Also shown in Table A are the same data expressed as index numbers where 1955 is the base year. Thus, percent change since 1955 can be read directly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance the 1958 index number for admissions is 117.9. This means that admissions in that year were 17.9 percent greater than 1955 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1955 was selected as the base year primarily because the number of resident patients reached its maximum during that year. Also, the admission, net release, and death data were not atypical during 1955. Percentage change between the data for any two years other than 1955 may be computed by obtaining the difference between the two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net releases in 1959 and 1960 are 139.5 and 151.3. The percent change between 1959 and 1960 is given by:

$$\frac{151.3 - 139.5}{139.5} = \frac{111.8}{139.5} = 8.46$$

Therefore, there was an 8.5 percent increase in net release between 1959 and 1960.

NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, STATE AND COUNTY MENTAL HOSPITALS, UNITED STATES, 1939-'64



RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, STATE AND COUNTY MENTAL HOSPITALS UNITED STATES, 1955-1964 1/

1964	302,946 271,506 45,186 490,754	199,600 \$1,133,015,675 2,281,27 6,23	1,403.28
1963	283,591 245,745 49,052 504,604	195,356 \$1,081,537,167 2,131,49 5,84	1,352.93
1962	269,854 230,158 49,563 515,640	\$1,033,567,884 1,998,24 5,47	1,299.87
1961	252,742 215,596 46,880 527,456	187,150 \$974,614,297 1,836.42 5.03	1,234.32
1960	234,791 192,818 49,748 535,540	\$916,236,166 \$916,236,166 1,702.41	1,177.75
1959	222,791 . 176,412 49,647 541,883	174,635 \$849,493,595 1,567.39	1,106.43
1958	209,823 161,742 51,383 545,182	\$806,711,228 1,475.89	1,063.83
1957	194,497 150,791 46,848 548,626	162,753 \$731,875,462 1,332,31 3,65	980,72 2,69
1956	185,597 145,313 48,236 551,390	153,715 \$663,280,934 1,194.88	890,38
1955	178,003 126,498 44,384 558,922	\$618,087,247 1,116.59	849.31
ITEM	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year Mantenance Expenditures Per Resident Patient Per year	Per Year Per Day

INDEX NUMBERS

- 6 -

170.2	214,6	101,8	87.8		136,3	183.3	204.3	203,6		165,2	164,4	
159,3	194,3	110,5	90.3		133,4	175.0	190.9	190.8		0.80	159.2	
151.6	181,9	111.7	92,3	_	130,1	167.2	179.0	178,8		1,55,1	152.8	
142.0	170.4	105,6	94.4		127.8	157.7	164.5	164.4		145.5	145,1	
131,9	152,4	112,1	95,8		122.4	148.2	152,5	152.0		7.861	138.2	
125,2	139,5	111,9	0.76		119,3	157.4	140.4	140,2		150.3	130.0	
117,9	127,9	115,8	97.5		115,9	130.5	132.2	132.0	1	125.3	124.9	
109,3	119,2	105,6	98,2		111,2	118.4	119,3	119,3		115,5	115,5	
104.3	114.9	108,7	98.7		105.0	107.3	107.0	106,5		104.8	104.3	
100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0		0.001	100.0	
All Admissions	Net Releases	Deaths in Hospital	Resident Patients End of Year	Personnel (full time)	at End of Year	Maintenance Expenditures	Per Year	Per Day	Per Pat. Under Ireatmt.	rer rear	Per Day	

^{1/} Sources:

1980: The Manda Hattle Statistica-Current Reports series. U.S. Department of Health, Education and Welfare; Public Health Service, 1985: National Institute of Wealth Health.
1985: Patients in Mental Institutions. Part II. U.S. Department of Health, Education and Welfare; Public Health Service, Mattoral Patient Health.
1984: The Preliminary Survey of State and County Mental Hospitals. 1956-1959: 1960-1963:

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1964 $^{2J^{\prime}}$ STATE AND COUNTY MENTAL HOSPITALS

PATIENT MOVEMENT DATA

		T	1						
			Ad	missions (exc	cluding transfe	rs)	Net		
07475		Resident		No Prior	With Prior		Releases		
STATE	No. of Hosp.	Patients Beginning	Total	Psych. Inpatient	Admis. to Hosp. in	All Other	Alive from a	Deaths in	Resident Patients
	nosp.	of Year	TOTAL	Experience	Same System	ATT Other	Hospital ² /	Hospital	End of Year
United States	289	504,500	302,946 ³ /	138,1123/	107,8943/	54,8523/	271,506	45,186	490,754
Alabama	2	7,547	4,062	2,325	1,370	367	3,526	499	7,584
Alaska	2	296	312	109	179	24	273	10	325
Arizona Arkansas	1 2	1,724	2,238	852 1,831	1,013 1,200	373 579	2,037 3,713	169 218	1,756 3,217
California	12	3,538 35,125	3,610 27,708	9,496	10,200	8,012	27,316	2,743	32,774
Colorado	2	4,316	3,085	1,311	1,182	592	3,408	355	3,638
Connecticut	3	8,279	8,156	4,013	3,421*	722*	7,241	982	8,212
Delaware District of Col.	2	1,686	1,067 1,692	732 220*	19 498*	316 974*	854 1,590	151 428	1,748 6,352
Florida	4	9,822	4,731	1,729	1,139	1,863	3,670	897	9,986
Georgia	1	12,014	6,786	4,906	1,677	203	5,589	1,114	12,097
Hawaii Idaho	1 2	1,017	432 947	123* 547	140* 367	169* 33	437 948	56 111	956 755
Illinois	13	34,442	17,841*	5,682*	8,026*	4,133*	16,143*	3,287*	32,853*
Indiana	9	11,205	4,621	2,344	1,444	833	3,965	757	11,104
lowa	6	3,068	4,744	2,083	1,885	776	4,916	276	2,620
Kansas	3	2,966	2,618	1,507*	886*	225*	2,621	162	2,801
Kentucky Louisiana	4 3	5,453 7,008	5,336 6,271*	2,462 3,128*	2,114 2,252*	760 891*	4,985 6,178*	574 392*	5,230 6,709*
Maine	2	2,838	1,732	986	648	98	1,375	326	2,869
Maryland 4/	6	8,151	7,779	4,539	2,903*	337*	6,894	870	8,166
Massachusetts	13	18,474	12,149*	6,202*	5,830*	117*	11,068*	1,678	17,877
Michigan Minnesota	10 8	20,357 7,749	6,846 5,731*	2,985* 2,416*	2,065* 2,480*	1,796* 835*	6,494 5,590*	977 682	19,732 7,208
Mississippi	2	5,412	4,110	2,105*	1,637*	368*	3,793	325	5,404
Missouri	6	10,814	4,208	2,239	1,168	801	3,458	754	10,810
Montana Nebraska	1	1,587	1,566	801	499 971	266 339	1,439	179 380	1,535
Nevada	4	3,729 550	2,627 566	1,317	117	349	2,423 582	53	3,553 481
New Hampshire	i	2,465	1,499	676*	475	348*	1,253	292	2,419
New Jersey	12	20,694	11,346	6,499	3,851	996	9,224	2,480	20,336
New Mexico New York	1 23	1,023	1,048	637	336	75	939	137	995
North Carolina	4	88,841 9,878	34,208 10,685	9,134* 5,753	12,020* 4,092*	13,054* 840*	26,954 9,678	9,446 1,023	86,649 9,862
North Dakota	1	1,563	1,387	724	469	194	1,317	113	1,520
Ohio 5/	20	22,647	17,774	8,457	7,200*	2,117*	16,212	1,844	22,365
Oklahoma Oregon	4 3	6,334	3,650	1,909	1,144	597 491	3,648	457 350	5,879
Dannasslannia	19	3,691 37,205	3,602 10,812	1,814 6,612	1,297		3,741		3,202
Rhode Island 6/	1	3,316	2,088		1,592	2,608	8,287 1,790	2,919 405	36,811 3,209
South Carolina South Dakota	1	6,658	3,569	2,445*	1,066*	58*	3,025	581	6,621
Tennessee	1 6	1,594 8,176	1,535	937	591	7	1,276	167	1,686
Texas	9	15,910	7,400 14,231	3,281 7,381	3,038 5,272	1,081 1,578	6,750 13,087	779 1,389	8,047 15,665
Utah	1	613	1,261	482	328	451	1,211	83	580
Vermont Virginia	1	1,220	727	431	296		593	119	1,235
Washington	4 3	11,452 4,680	5,854 3,668	3,017 2,034*	2,154*	683*	4,783	1,011	11,512
West Virginia	5	5,225	4,251	1,867	1,314* 881	320* 1,503	3,546 3,821	462 481	4,340 5,174
Wisconsin	42	13,920	8,105	4,476	3,019	610	7,259	1,166	13,600
Wyoming	1	683	675	456	129	90	586	77	695
C.									

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1964^{12}

STATE AND COUNTY MENTAL HOSPITALS

PERSONNEL AND FINANCIAL DATA

_	Average Daily		Total	Maint	enance Expendit	ures
STATE	Resident Patient Population	Patients under Treatment	Full-time Personnel End of Year	Total Amount	Daily Expe Per Resident Patient 7/	Per Patient Under Treatment
United States	496,661	807,446	199,600	\$1,133,015,675	\$6.23	\$3.83
Alabama	7,571	11,609	1,965	9,604,700	3.47	2,26
Alaska	307	608	352*	2,724,489	24.25	12,24
Arizona	1,760	3,962	662	5,000,520	7.76	3,45
Arkansas	3,304	7,148	1,547	7,350,918	6.08	2,81
California	32,849	62,833	13,890	104,333,929	8.68	4,54
Colorado	3,784	7,401	2,690	16,137,933	11.65	5,96
Connecticut	8,280	16,435	4,023	22,691,234	7.49	3,77
Delaware	1,725	2,753	940*	4,191,928*	6.64*	4,16*
District of Columbia	6,518	8,370	4,005	28,722,210	12.04	9,38
Florida	9,949	14,553	4,329	18,656,863	5.12	3,50
Georgia	12,046	18,800	2,936	15,238,788	3.46	2,21
Hawaii	998	1,449	399	2,858,854	7.83	5,39
Idaho	820	1,814	451	2,492,948	8.31	3,75
Illinois	33,745	52,283	12,449	73,573,008*	5.96*	3,84*
Indiana	11,246	15,826	5,187	25,514,077*	6.20*	4,40*
lowa	2,859	7,812	2,148	10,924,588* 12,688,626 11,314,759* 12,661,318* 5,403,202	10.44*	3,82*
Kansas	2,844	5,584	2,339		12.19	6,21
Kentucky	5,399	10,789	2,118		5.73*	2,87*
Louisiana	6,813	13,279	2,686		5.08*	2,61*
Maine	2,851	4,570	1,033		5.18	3,23
Maryland	8,082	15,930	3,838	20,449,749	6.91	3.51
Massachusetts	18,144	30,623	8,618*	51,449,486*	7.75*	4.59*
Michigan	20,124	27,203	6,675*	50,350,442*	6.84*	5.06*
Minnesota	7,559	13,480	2,876*	18,216,446	6.58	3.69*
Mississippi	5,354	9,522	1,703	6,028,674	3.08	1.73
Missourı	10,933	15,022	5,104	23,252,488	5.81	4.23
Montana	1,541	3,153	573	3,125,264	5.54	2.71
Nebraska	3,659	6,356	2,283	9,731,754	7.27	4.18
Nevada	527	1,116	250	1,736,893	9.00	4.25
New Hampshire	2,462	3,964	952	5,134,184	5.70	3.54
New Jersey	20,439	32,040	9,173	48,500,828	6.48	4.14
New Mexico	1,011	2,071	490	2,431,782	6.57	3.21
New York	87,897	123,049	33,472	198,272,864	6.16	4.40
North Carolina	9,888	20,563	3,625	19,885,225	5.49	2.64
North Dakota	1,564	2,950	599	3,418,048	5.97	3.17
Ohio 5/	22,333	40,421	8,523	44,846,691	5.49	3.03
Oklahoma	6,106	9,984	2,705	10,530,654	4.71	2.88
Oregon	3,425	7,293	1,422	9,530,048	7.60	3.57
Pennsylvania	37,043	48,017	13,931	77,458,570	5.71	4.41
Rhode Island	3,269	5,404	1,556	7,857,979	6.57	3.97
South Carolina	6,535	10,227	1,857	8,702,201	3.64	2.32
South Dakota	1,652	3,129	750	3,187,242	5.19	2.74
Tennessee	8,210	15,576	3,013	12,534,111	4.17	2.20
Texas	15,734	30,141	5,663	26,214,739	4.55	2.38
Utah	603	1,874	450	2,375,383	10.76	3.46
Vermont	1,224	1,947	489	2,778,721	6.20	3.90
Virginia	11,492	17,306	3,786	17,410,437	4.14	2.75
Washington	4,534	8,348	2,289	14,588,705	8.79	4.77
West Virginia	5,197	9,476	1,377	6,721,838	3.53	1.94
Wisconsin <u>9</u> /	13,768	22,025	5,143	32,792,000*	6.51	4.07
Wyoming	684	1,358	266	1,467,337	5,86	2,95

Shaper Alexander - N. S.

TABLE 1 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1964 $^{1\!\!\!\!/}$

STATE AND COUNTY MENTAL HOSPITALS

PATIENT MOVEMENT RATIOS

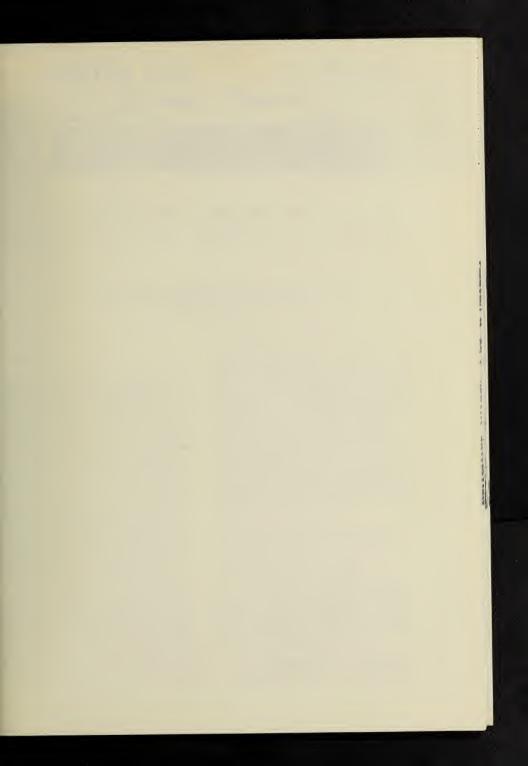
		40/			11/	
	Per 100,000 Civ	ilian Population 10/	Per 1,000	Average Residen	t Patients_	
STATE	Total Admissions	Average Daily Resident Patient Population	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	Net Releases per 1,000 Total Admissions
United States	160.0	262.3	608.8	545.6	90.8	896.2
Alabama	120.0	223.7	536.9	466.0	66.0	868.0
Alaska	143.1	140.8	1,003.2	877.8	32.2	875.0
Arizona	143.4	112.7	1,286.2	1,170.7	97.1	910.2
Arkansas	188.2	172.3	1,068.7	1,099.2	64.5	1,028.5
California	156.1	185.1	816.1	804.6	80.8	985.9
Colorado	160.2	196.5	775.7	856.9	89.3	1,104.7
Connecticut	296.4	300.9	989.1	878.1	119.1	887.8
Delaware 12/	221.4	357.9	621.4	497.4	87.9	800.4
District of Columbia	174.7	656.7	259.7	244.1	65.7	939.7
Florida	84.4	177.4	477.7	370.6	90.6	775.7
Georgia	161.7	287.0	562.9	463.6	92.4	823.6
Hawaii	67.4	155.7	437.7	442.8	56.7	1,011.6
Idaho	138.0	119.5	1,167.7	1,168.9	136.9	1,001.1
Illinois	170.8*	323.1	530.2*	479.8*	97.7*	904.8*
Indiana	96.0	233.5	414.3	355.4	67.9	858.0
lowa	172.2	103.8	1,668.1	1,728.6	97.0	1,036.3
Kansas	119.6	129.9	907.8	908.8	56.2	1,001.1
Kentucky	171.4	173.4	998.9	933.2	107.5	934.2
Louisiana	182.7*	198.5	914.3*	900.7*	57.2*	985.2*
Maine	178.4	293.6	606.9	481.8	114.2	793.9
Maryland	230.3	239.3	953.4	845.0	106.6	886.2
Massachusetts	229.4*	342.5	668.4*	608.9*	92.3	911.0*
Michigan	84.8	249.2	341.5	324.0	48.7	948.6
Minnesota	163.0*	215.0	766.3*	747.4*	91.2	975.4*
Mississippi	179.5	233.8	760.0	701.4	60.1	922.9
Missouri	96.2	250.0	389.2	319.8	69.7	821.8
Wontana	225.3	221.7	1,003.2	921.8	114.7	918.9
Nebraska	179.8	250.4	721.5	665.5	104.4	922.3
Nevada	141.5	131.8	1,096.9	1,127.9	102.7	1,028.3
New Hampshire	231.7	380.5	613.8	513.1	119.6	835.9
New Jersey	171.2	308.3	553.1	449.6	120.9	813.0
New Mexico	106.2	102.4	1,038.7	930.6	135.8	896.0
New York	191.4	491.9	389.9	307.2	107.7	787.9
North Carolina	224.4	207.7	1,082.6	980.5	103.6	905.8
North Dakota	218.8	246.7	899.5	854.1	73.3	949.5
Ohio ⁶ /	176.3	221.5	789.7	720.3	81.9	912.1
Oklahoma	150.1	251.1	597.7	597.3	74.8	999.5
Oregon	193.1	183.6	1,045.0	1,085.3	101.5	1,038.6
Pennsylvania	94.5	323.7	292.2	223.9	78.9	766.5
Rhode Island	235.4	368.5	639.9	548.6	124.1	857.3
South Carolina	143.3	262.4	537.5	455.6	87.5	847.6
South Dakota	216.8	233.3	936.0	778.0	101.8	831.3
Tennessee	196.3	217.8	912.2	832.1	96.0	912.2
Texas	139.2	153.8	901.4	828.9	88.0	919.6
Utah	127.6	61.0	2,112.2	2,028.5	139.0	960.3
Vermont	178.2	300.0	592.0	482.9	96.9	815.7
Virginia	138.7	272.3	509.8	416.6	88.1	817.0
Washington	125.2	154.7	813.3	786.3	102.4	966.7
West Virginia	236.7	289.4	817.5	734.8	92.5	896.8
Wisconsin	197.6	335.6	589.0	527.5	84.7	895.6
Wyoming	199.7	202.4	979.7	850.5	111.8	868.1

- 1/ These data were taken from the 1964 Provisional Survey of the state and county mental hospitals. Exceptions are given in footnotes.
- Net releases are defined as the net number of patients released alive from the hospital in any one year.
- 3/ Type of admission data were not available, for this table, for 2,088 patients. (See footnote 6.) Therefore, for the U.S. total, the number of patients in the three admission categories will not add to the total number of admissions.
- 4/ Maryland: "Admissions with prior admissions to hospitals in the same state system" and "all other admissions" public mental hospital data from Maryland for the 1963 Census of Patients in Mental Institutions were used as a basis for pro-rating the 1964 total admissions between these two categories.
- 5/ Ohio: Effective July 1, 1981, two of the facilities in Ohio (formerly classified as state hospitals for mentally ill) were designated as public institutions for the mentally retarded. Mentally ill patients in these two facilities (i.e. a total of 291 average daily resident patients) were reported and are included in the above table. However, personnel and financial data corresponding to these mentally ill patients are not available. In addition, one other facility classified as a mental hospital has mentally ill and mentally retarded patients, for this facility only the number of mentally ill patients was reported, thus excluding the number of mentally retarded patients. However, the personnel and financial data reported pertained to all patients in the hospital.
- 6/ Rhode Island: Data by type of admission are not available.
- Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- B/ Per patient under treatment maintenance expenditures are based on the patients under treatment for hospitals reporting expenditures.

- 9/ Wisconsin: One hospital closed and it did not report maintenance expenditures. Therefore, 38 patients were excluded from the denominator in computing daily expenditures per patient under treatment.
- 10/ Admission and average daily resident patient rates are per 100,000 estimated civilian population. Sources U.S. Bureau of the Census, Current Population Reports, Scries P-25, No. 289. Provisional estimate for July 1, 1964.
- 11/ These ratios are based on the average of the beginning and end of year resident patient population.
- 12/ District of Columbia: Since a substantial proportion of the patients at the St. Elizabeths Hospital are non-residents of the District of Columbia, total admission and resident patient rates per 100,000 population are computed only for residents of the District of Columbia. District residents include 1,387 total admissions and 5,214 average daily resident patients.

Symbols used: * Indicates data which are estimates or include estimates.

--- Data not available.



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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

National Clearinghouse for Mental Health Information

January 1966

Bethesda, Maryland 20014

Series MHB-H-10

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS UNITED STATES

1965

. PURPOSE

Since the passage of the National Mental Health Act by Congress in 1946, the Naional Institute of Mental Health has been esponsible for collecting and publishing lata on the hospitalized mentally ill in the Jnited States -- data necessary to answer equests from members of Congress, State egislators, project planners, hospital adninistrators and other persons interested n the field of mental illness. These data are extremely useful, for example, in planning for facilities and services, reearch and training, and legislation and inancing. In an effort to provide current lata, the provisional survey statistics abulated in these Mental Health Statistics --Current Reports (Series MHB-H) are collected and published annually for cerain patient movement and administrative ategories, by state, for the state and county mental hospitals. (Similar data are published for the Public Institutions for the Mentally Retarded in the Series MHB-I)

Certain trend data for the United States, overing the period 1955 through 1965 may e found in Table A. A graph depicts trends or some of the patient movement cate-ories from 1939 through 1965. The data, y state for the current year, fiscal 1965, ire found in Table 1. These data were btained from the 1965 "Preliminary Survey of State and County Mental Hospitals". As hese data are provisional, they are subject o some change. Data in greater detail -- admissions with no prior psychiatric inpatient experience and resident patients by age, sex and mental disorder; personnel by occupation; maintenance expenditure by type -- will appear in the future publication of Part II in the series, Patients in Mental Institutions, (U.S. Dept. of HEW, PHS, NIMH). Data for patients in the private mental hospitals, data for the psychiatric patients in general hospitals, and for patients in the public and private institutions for the mentally retarded will be available in other parts of the series. Data for patients served in psychiatric outpatient clinics will be available in separate publications prepared by the Office of Biometry of the National Institute of Mental Health.

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

l. Admissions: This category includes three admission classifications. Admissions With No Prior Psychiatric

Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities-state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

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2. Net Releases Alive from Hospital The concept of 'net release alive from hospital' takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

Net Releases Alive from Hospital	=	Resident Patients Beginning of Year	+	All Admis- sions excluding Transfers	_	Deaths in Hospital	-	Resident Patients End of Year
Hospital	Į	of Year		Transfers		Hospital		Year

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios per 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example:

Suppose that the resident patient populations in State A and State B each decreased by 0.6 percent (or 6 per 1,000).

Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the patient movement ratios are computed to be the following:

Movement Category	State A	State B
Admissions	323.7	522.2
Net Releases	229.5	454.8
Deaths	99.9	73.5

These ratios show that State B has much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 Admissions The ratio "net releases per 1,000 admissions" is a convenient index for summarizing the live net movement into and out of the hospital. For example, if the ratio is less than 100, there were more admissions than net releases. Note that this index does not relate net releases to admissions in the sense of a percent or rate because not all releases during a year derive from the admissions during that year. Some of these net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year.

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. If the patient base is enlarged to include admissions during the year the resulting sum is the best available estimate of patients under treatment during the year. This quantity is actually defined as:

Under Treatment		?	2	Resident Patient Beginning	+	sions excluding	+	Leave Beginning	
---	--	---	---	----------------------------------	---	--------------------	---	-----------------	--

The estimate, however, does not include the last category, Returns from Leave, since these data are not available nationally.

The ratio of expenditures to patients under treatment appears to be a more realistic measure, but it does not solve the problem completely. While a larger share of the expenditures is required for the care of admissions, the index weights both admissions and resident patients equally.

The expenditure figures and ratios are not necessarily expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. County data have been included to insure greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 1.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

For example, the number of admissions per 100,000 civilian population for the United States was 164-individual state ratios varied from 72 to 314. The net release ratios also show considerable variation. Net releases per 1,000 average resident patients ranged from 236 to 2,029; net releases per 1,000 total admissions, from

754 to 1,211. The drop in the resident patient population did not occur uniformly in all states. While the resident population decreased in 42 states including the District of Columbia, five states showed little change and four states had an increase in the number of residents. In addition, a high of \$11.82 per patient under treatment per day to a low of \$1.77 further points out the considerable variation existing among states.

However, as has been emphasized in Sections A4-A6, comparison of state ratios, while serving to highlight areas of differences, are limited. More detailed classifications of movement categories by such variables as age, sex, diagnosis and time on books are needed. Data on age, sex, and diagnosis as well as more detail on personnel and maintenance expenditures will be available in Patients in Mental Institutions (NIMH, U.S. PHS). This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of the rapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

III. TRENDS

The state of the s

For the 10th consecutive year, the <u>RESI-DENT PATIENT POPULATION</u> in the State and county mental hospitals has decreased from 559,000 in 1955 to 476,000 in 1965 or a drop of 15% during the 10 year period. This has occurred in spite of increases in the general population. Prior to 1956, the trend had been one of increasing numbers of residents, with the exception of only one year (1943) which saw a slight decrease.

Correspondingly, the number of NET RELEASES has continued to climb--atrend which began in the mid 1940's. In 10 years (1955-1965), the number has more than doubled. In 1965, there were 286,989 net releases as compared with 126,498 in 1955.

Along with increasing numbers of net releases and decreasing numbers of resident patients, the number of TOTAL ADMISSIONS has increased steadily, continuing another trend which began in the mid 1940's, In 1965, the number of admissions was approximately 314,000. This has resulted in a 1965 admission rate of 164 patients per 100,000 civilian population, compared with 110 in 1955.

The number of <u>DEATHS</u> in the hospitals has fluctuated--over the years. In 1965

44,000 deaths were reported. This is the lowest number of deaths reported in the last 10 years.

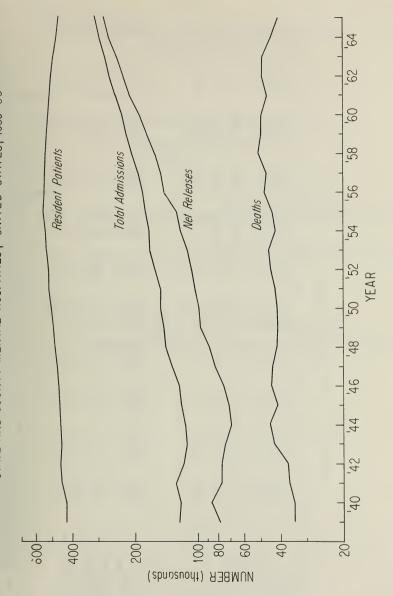
There are more than 230,000 FULL TIME PERSONNEL caring for the mentally ill in our 289 State and county hospitals. The ratio of personnel per patients has been an ever increasing one and in 1965 it reached one full time employee for every 2.1 patients.

The MAINTENANCE EXPENDITURES for the care of these patients have also greatly increased--going over a billion dollars in 1962--and still climbing. Converting these data into ratios, in 1965, \$4.08 was spent each day per patient under treatment as compared with \$2.33 in 1955.

Trends in certain patient movement categories are depicted graphically for 1939-1965 on page 5. These trends, as well as others, are indicated numerically for the years 1955-1965 in Table A and include estimates for under reporting wherever possible. Therefore, these totals, which are the most complete available, supersede totals published in prior reports. Also shown in table A are the same data expressed as index numbers where 1955 is the base year. Thus, percent change since 1955 can be read directly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance the 1958 index number for admissions is 117.9. This means that admissions in that year were 17.9 percent greater than 1955 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1955 was selected as the base year primarily because the number of resident patients reached its maximum during that year. Also, the admission, net release, and death data were not atypical during 1955. Percentage change between the data for any two years other than 1955 may be computed by obtaining the difference between the two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net releases in 1959 and 1960 are 139.5 and 151.3. The percent change between 1959 and 1960 is given by:

$$\frac{151.3 - 139.5}{139.5} = \frac{11.8}{139.5} = 8.46$$

Therefore, there was an 8.5 percent increase in net release between 1959 and 1960.



Carried A. M.

recent trends of patient moughent and administrative data, state and county mental hospitals united states, $1955-1965~\underline{1}/$

1964 1965	245,745 271,506 286,989 49,052 45,186 44,270 504,604 490,754 415,761	195,356 199,600 230,564 537,167 \$1,133,015,675 \$1,201,979,234	1.49 2,281.27 2,461.05 5.84 6.23 6.74	1,403.28 1,489.40 3.71 3.83 4.08
1962 1963	269,854 283, 230,158 245, 49,563 49, 515,640 504,	190,433	1,998.24 2,131.49 5.47 5.84	1,299.87 1,352.93
1961	252,742 215,596 46,880 527,456	187,150	1,836.42	1,234.32
1960	234,791 192,818 7 49,748 535,540	179,162	1,702.41	1,177.75
1959	222,791 2 176,412 3 49,647 2 541,883	174,635	9 1,567.39 4 4.29	1,106.43
1958	7 209,823 1 161,742 8 51,383 6 545,182	3 169,707 2 \$806,711,228	1 1,475.89	1,063.83
1957	7 194,497 6 150,791 6 46,848 0 548,626	5 4 \$731,875,462	8 1,332.31 6 3.65	980.72
1956	3 185,597 8 145,313 4 48,236 2 551,390	153,715 \$663,280,934	9 1,194.88 6 3.26	1 890.38 3 2.43
1955	178,003 126,498 44,384 558,922	146,392 \$618,087,247	1,116.59	849.31
ITEM	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	ersonnel (full time) at End of Year laintenance Expenditures Per Resident Patient	Per Year Per Day Day Daffente Under Treatment	Per Year Per Day

INDEX NUMBERS

All Adminstons	100 0	10% 3	117 9	125.2		14.2 0	151 6	150 3		176 7
	2.004	2011	11111	11.001		2011	0.101	0.101		
Net Releases	100.0	114.9	127.9	139.5		170.4	181.9	194.3		226.9
Deaths in Hospital	100.0	108.7	115.8	111.9		105.6	111.7	110.5		7.66
Resident Patients End of Year	100.0	98.7	97.5	97.0	92.8	7.76	92.3	90.3		85.1
Personnel (full time)										
at End of Year	100.0	105.0	115.9	119.3	122.4	127.8	130.1	133.4		157.5
Maintenance Expenditures	100.0	107.3	130.5	137.4		157.7	167.2	175.0		194.5
Per Resident Patient										
Per Year	100.0	107.0	132.2	140.4		164.5	179.0	190.9		220.4
Per Day	100.0	106.5	132.0	140.2		164.4	178.8	190.8	_	220.3
Per Patients Under Treatment										
Per Year	100.0	104.8	125.3	130.3		145.3	153,1	159.3		175.4
Per Day	100.0	104.3	124.9	130.0		145.1	152.8	159.2		175.1

1/ Sources:

1956-1999: The Mantal Health Statistics-Current Reports series. U.S. Department of Health, Education and Welfare; Public Health Service, National Institute of Peneral Health.
1960-1963: Religional Institute of Peneral Health.
1964-1965: The Pealishings Survey of State and County Mental Hospitals.

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE NATIONAL INSTITUTE OF MENTAL HEALTH

ERRATA FOR SERIES MHB-H-10:

Provisional Patient Movement and Administrative Data
State and County Mental Hospitals
1965

Page 6:

- 1965 Number of full-time personnel should be changed from 230,564 to 204,091
- 1965 Number of full-time personnel index number should be changed from 157.5 to 139.4

Page 8:

Under Total Full-time Personnel End of Year

New York should be changed from 60,805 to 34,332

United States should be changed from 230,564 to 204,091.

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TABLE 1.

provisional patient hovement and administrative data: united states, 1965 $^{1\!f}$ state and county mental hospitals

PATIENT MOVEMENT DATA

				PATIENT MOVEM	CIAT DATA				
				dmissions (exclu	uding transfers)				
STATE	Number of Hospitals	Resident Patients Beginning of Yesr	Total	No Prior Psych. Inpatient Experience	With Prior Admis. to Hosp. in Same System	All Other	Net Releases Alive from 2/ Hospital 2/	Oeaths in Hospital	Resident Patients End of Year
United States	289	492,577	314,443	144,042	115,486	54,915	286,989	44,270	475,761
Alabama Alaska Arizona Arkenses California	2 2 1 2 12	7,584 324 1,756 3,217 32,769	4,295 317 1,770 3,906 28,261	2,372 192 882 1,939 10,651	1,352 96 559 1,350 10,983	571* 29 329 617 6,627	3,622 323 1,688 4,122 28,696	566 6 154 222 1,985	7,691 312 1,684 2,779 30,349
Colorado Connecticut Delaware District of Columbia Florida	2 3 2 1 4	3,638 8,212 1,767 6,352 9,986	3,095 8,859 1,177 1,965 4,808	1,304 4,067 856 330* 1,832	1,325 3,952* 316 611* 1,194	466 840* 5 1,024* 1,782	3,331 8,131 1,100 1,784 3,872	264 1,032 177 402 930	3,138 7,908 1,667 6,131 9,992
Georgia Hawaii Idaho Illinois Indiana	1 1 2 13 9	12,097 931 755 32,854* 11,105	6,692 465 958 19,892* 4,569	4,733 120 579 6,653* 2,354	1,819 198 367 9,601* 911	140 147 12 3,638* 1,304	5,920 563 886 18,764* 3,875	1,046 46 87 3,164* 751	11,823 787 740 30,818* 11,048
lowa Kansas Kentucky Louisiana Maine	6 3 4 3 2	2,620 2,801 5,230 6,710* 2,869	4,719 3,149 5,416 6,478* 1,820	1,976 1,727 2,355 3,240* 992	2,053 1,405* 2,125 2,428* 635	690 17 936 810* 193	4,913 3,143 5,244 6,373* 1,579	204 185 515 367* 342	2,222 2,622 4,887 6,448* 2,768
Maryland 3/ Massachusetts Michigan Minnesota Mississippi	6 13 9 8 2	8,168 17,877 19,732 7,208 5,404	8,645 12,309 7,183 5,854* 4,133	4,908 6,784* 3,074* 2,359* 2,348	3,348* 5,249* 2,020* 2,592* 1,313	389* 276* 2,089* 903* 472	7,506 11,302 7,228 5,917* 3,806	961 1,631 976 553 364	8,346 17,253 18,711 6,592 5,367
Missouri Montana Nebraska Nevada New Hampshire	5 1 4 1	10,664 1,535 3,665 480 2,419	3,744 2,100 3,673 701 1,471	1,937 784 1,824 441 800*	1,059 498 1,284 122 483	748 818 565 138 188*	3,292 1,951 3,360 620 1,400	800 166 580 38 251	10,316 1,518 3,398 523 2,239
New Jersey New Mexico New York 4/ North Carolina Morth Dakota	12 1 24 4 1	20,335 995 88,457 9,864 1,520	10,994 1,125 35,704 12,102 1,405	6,009 510 10,711* 6,257 691	4,074 297 12,568* 4,867* 490	911 318 12,425* 978* 224	9,442 1,134 26,913 11,638 1,341	2,459 96 9,587 993 105	19,428 890 87,661 9,335 1,479
Ohio 5/ Oklahoma Oregon Pennsylvania Rhode Island	21 4 3 20 1	22,365 5,862 3,202 36,882 3,209	17,842 5,465 3,754 10,664 2,089	8,430 2,166 1,785 6,570 1,110	7,263* 2,138 1,412 1,632 881*	2,149* 1,161 557 2,462 98*	16,475 5,496 3,761 8,594 1,731	1,902 377 350 2,994 453	21,830 5,454 2,845 35,958 3,114
South Carolina South Dakota Tennessee Texas Utah	2 1 6 8	6,621 1,686 8,047 15,668 580	3,668 1,510 7,953 14,277 1,109	2,043 893 3,451 7,099 487	1,246 594 3,467 5,762 372	379 23 1,035 1,416 250	3,347 1,358 7,591 12,955 1,025	536 190 642 1,338 72	6,406 1,648 7,767 15,652 592
Vermont Virginia Washington West Virginia Wisconsin	1 4 3 5 41	1,235 11,512 4,340 5,172 13,601	751 6,194 3,716 2,946 8,183	399 3,193 1,951* 1,411 4,096	333 2,025 1,266* 139 3,314	19 976 499* 1,396 773	5,094 3,842 2,544 7,218	137 1,068 363 514 1,251	1,207 11,544 3,851 5,060 13,315
Wyoming	1	695	568	367	98	103	537	78	648

TABLE I (Continued)

PROVISIONAL PATIENT HOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1965 $^{1/}$

STATE AND COUNTY MENTAL BOSPITALS

PERSONNEL AND FINANCIAL DATA

					Maintenance Expendit	uraa
	Average Daily	Patients	Total			andituras
STATE	Resident Patient Population	Under Treatment	Pnll-time Personnel End of Year	Total Amount	Par Resident Pstient 6/	Per Patient Under Treatment 7/
United States	488,400	807,020	230,564	1,201,979,234	6.74	4.08
Alabana	7,570	11.879	1,924	9,622,994	3.48	2.22
Alsska	329	641	375	2,764,400	23.02	11.82
Arizona	1.709	3,526	678	4,380,518	7.02	3,40
Arkanaaa	2,998	7,123	1,620	7,853,851	7.18	3,02
California	30,463	61,030	14,187	110,909,096	9.97	4.98
Colorade	3,348	6.733	3,027	18,122,650*	14.83*	7.37*
Connectiont	8,039	17,071	3,810	24,174,928	8.24	3.88
Delawars	1.771	2.944	932	4,581,467*	7.09*	4.26*
District of Columbia	6,259	8,317	3.877	29,316,206	12.83	9.66
Plorida	9,925	14,794	4,475	19,570,868	5.40	3.62
Georgia	11,982	18,789	3,120	16,487,360	3,77	2.40
Georgia Rawaii	899	1,396	3,120	2,904,830	8.85	5.70
Idaho	746	1,713	439	2,464,948	9.05	3.94
Illineia	36,962*	52.746*	13.508*	84,902,195	6.29*	4.41*
Indiana	11.140	15,674	5,393	27,777,194	6.83	4.86
					12.97*	4.26*
Iowa	2,414	7,339 5,950	2,174 2,337	11,424,083* 13,298,848	13.62	6.12
Kansas Kantucky	5,102	10,646	2,337	11,352,865*	6.10*	2.92*
Leuisiana	6.521	13,188*	2,772	13,489,202	5.67	2.80≈
Louisiana Hains	2,822	4,689	1,054	5,634,929	5.47	3.29
	1					
Maryland	8,127	16,813	3,738	22,052,153	7.43	3.59
Massachnastts	17,534	30,186	8,658	53,218,737	8.32 7.60	4.83 5.47
Hichigan	19,383	26,915 13.062*	6,679 3,132	53,785,277 19,296,287	7.61	4.05*
Minnsaeta Missiasippi	6,944 5.307	9,537	1,820	6,150,572	3.18	1.77
		,				
Miasouri	10,501	14,408	4,896	22,262,756	5.81	4.23
Hontana	1,535	3,635	567	3,300,684	5.89 8.09	2.49
Hebraska	3,466 498	7,338 1,181	2,397 249	10,240,594	10.45*	4.41*
Havada New Hampshira	2,346	3,890	992	5,201,183	6.07	3.66
New Jarssy	19,951	31,329	8,946	49,561,493	6.81	4.33
Hew Mexico	969	2,120	472	2,638,587	7.46	3.41
Hew York	88,214	124,161	60,805	205,555,759*	6.38*	4.54*
Horth Carolina	9,651	21,966	3,874 620	21,091,001 3,761,073	5.99 6.89	3,52
North Dakota	1,495	2,925				
0hio 5/	22,033	40,207	8,749	47,341,068*	5.89*	3.23*
0klahoma	5,658	11,327	2,708	10,666,019	5.16	2.58
Oragon	3,018	6,956	1,433	9,561,484	8.68	3.77
Pennsylvania	36,536	47,546	14,388	82,848,808	6.21 7.68*	4.77 4.65*
Rhoda Island	3,209	5,298	1,563	8,992,065*		
South Carolina	6,492	10,289	1,809	9,042,997	3.82	2.41
South Dakota	1,677	3,196	751	3,431,432	5.61	2.94
Tsnnsssss	7,920	16,000	3,196	14,237,298	4.93	2.44
Texas	15,547	29,945	5,384	27,412,006	4.83	2.51
Utah	599*	1,689	430	2,716,815	12.43*	
Varmont	1,243	1,986	520	3,274,552	7.22	4.52
Virginis	11,470	17,706	4,052	19,971,734	4.77	3.09
Weahington	4,107	8,056	2,189	14,693,759	9.80	5.00
West Virginia	5,142	8,118	1,651	6,973,316	3.72	2.35
Wisconsin	13,504	21,784	5,285	38,248,956*	7.76*	4.81*
Wyoming	650	1,263	302	1.517.337	6.40	3.29

THE RESERVE TO SERVE THE PARTY OF THE PARTY

TABLE I (Continued)

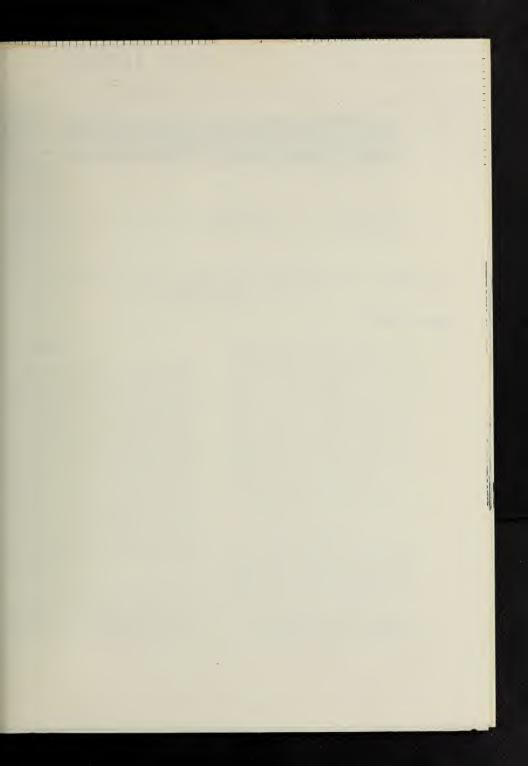
PROVISIONAL PATIENT HOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1965 1/ STATE AND COUNTY MENTAL HOSPITALS PATIENT MOVEMENT NATIOS

		8/		Average Resident Pat	9/	
STATE	Per IOO,000 Civi Total Admissions	Average Daily Resident Patient Population	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	Net Releases per 1,000 Total Admissions
United States	163.9	254.5	649.4	592.7	91.4	912.7
Alabama	124.9	220.2	562.3	474.2	74.1	843.3
Alaska	143.4	148.9	996.9	1,015.7	18.9	1,018.9
Arizona	111.6	107.8	1,029.1	981.4	89.5	953.7
Arkansas	200.3	153.7	1,302,9	1,374.9	74.0	1,055.3
California	154.5	166.5	895.5	909.3	62.9	1,015.4
Colorado	160.2	173.3	913.5	983.2	77.9	1,076.3
Connecticut	314.0	285.0	1.099.1	1,008.8	128.0	917.8
Delaware	236.8	356.3	685.5	640.7	103.1	934.6
District of Columbia 10/	204.2	638.9	314.8	285.8	64.4	907.9
Florida	84.2	173.8	481.3	387.6	93.1	805.3
					87.5	884.6
Georgia	157.0	281.1	559.5	495.0 655.4	87.5 53.6	1,210.8
Hawaii	71.8	138.7	541.3 1,280.7		53.6 116.3	1,210.8
Idaho	139.7	108.7		1,184.5	99.4*	924.8
Illinois	187.7*	348.8*	624.8*	589.4*	67.8	848.1
Indiana	93.7	228.4	412.5	349.8	67.8	840.1
Iowa	171.1	87.5	I,949.2	2,029.3	84.3	1,041.1
Kansas	143.5	121.9	1,161.1	1,158.9	68.2	998.1
Kentucky	172.5	162.5	1,070.6	1,036.6	101.8	968.2
Louisiana	185.0*	186.3	984.6*	968.7*	55.8*	983.8*
Maine	186.7	289.4	645.6	560.1	121.3	867.6
Maryland	249.7	234.7	1.047.0	909.0	116.4	868.2
Massachusetts	231.9	254.7	700.8	643.4	92.9	918.2
Michigan	87.6	236.5	373.7	376.0	50.8	1,006.3
Minnesota	164.9*	195.7	848.4*	857.5*	80.1	1,010.8*
Mississippi	179.6	230.6	767.4	706.6	67.6	920.9
.,	83.8	235.0	356.9	313.8	76.3	879.3
Missouri	301.7	235.0	1.375.2	1,277,7	108.7	929.0
fontana	251.7	237.6	1,039.9	951.3	164.2	914.8
Nebraska Nevada	162.3	115.3	1,396.4	1,235,1	75.7	884.5
sevada New Hampshire	222.2	354.4	631.6	601.1	107.8	951.7
New Jersey	163.3	296.3	553.0	474.9	123.7	858.8
New Mexico	111.7	96.2	1,193.0	1,202.5	101.8	1,008.0
New York	198.0	489.3	405.5	305.6	108.9	753.8
North Carolins	251.0	200.2	1,260.6	1,212.3	103.4	961.7
forth Dakota	219.5	233.6	936.7	894.0	70.0	954.4
Ohio 5/	174.5	215.5	807.4	745.5	86.1	923.4
klahoma	223.2	231.1	965.9	971.4	66.6	1,005.7
Oregon	198.2	159.3	1,241.4	1,243.7	115.7	1,001.9
Pennsylvania	92.7	317.6	292.8	236.0	82.2	805.9
Rhode Island	233.4	358.5	660.7	547.4	143.3	828.6
South Carolina	147.4	260.9	563.1	513.8	82.3	912.5
South Carolina South Dakota	217.0	240.9	905.8	814.6	114.0	899.3
Cennessee	208.4	207.5	1.005.8	960.0	81.2	954.5
Texas	137.5	149.7	911.7	827.3	85.4	907.4
Utah	112.6	60.8*	1,892.5	1,749.1	122.9	924.3
	189.2	313.1	615.1	525.8	112.2	854.9
Vermont Virginia	189.2	267.1	537.3	441.9	92.6	822.4
Virginia Washington	126.9	140.2	907.2	938.0	88.6	1.033.9
est Virginia	162.7	283.9	575.8	497.3	100.5	863.5
est Virginis ∂isconsin	197.7	326.2	608.0	536.3	93.0	882.1
					1	
Wyoming	169.6	194.0	845.2	799.1	116.1	945.4

- 1/ These data were taken from the 1965 Preliminary Survey of public mental hospitals. Excaptions are given in footnotes.
- 2/ Net releases are defined as the out oumber of patients released alive from the hospital in any one year.
- 2/ Maryland: "Admissions with prior edmissions to hospitals in the same state system" and "All nther admissions" public mental hospital data from Maryland for the 1964 Geness of Petients in Mental Institutions were used as a basis for pro-rating the 1965 total admissions between these two categories.
- 6/ New York: "Admissions with prior admissions to hospitals in the same state system" and "ell other admissions" public mental hospital data from New York for the 1964 Census of Fatients in Mental Institutions were used as a basis for pro-retion the 1965 total admissions between these two catagories.
- 5/ Ohio: Effective July 1, 1961, two of the fecilities to Ohio (formerly classified as state hospitals for mentally ill) were designated as public inscitnations for the mentally-retarded. Mentally ill periods in these two fecilities (i.e. a total of 116 average delly resident patients) were resported and are included to the above teble. Rowever, personnal and financial data carraspood ong to these mentally ill patients are not swellahl. In addition, one other facility classified as a mootal hospital has mentally ill med mentally rateried patients. For this facility bulbable of mentally retarded patients. Rowever, the personnal end financial data reported pertained to all patients in the bospital.

- 6/ Par resident patient meintenance expenditures are based on the avarege daily resident patient population of hospitals reporting expenditorss.
- 2/ Par patient under treatment maintenance expenditures are based on the patients under treatment for hospitals reporting expenditures.
- 8/ Admission and everage daily resident patient rates era per 100,000 astimated civilian population. Source: U.S. Burean of the Census, Curraot Population Reports, Series P-25, Mo. 317. Provisional astimate for July 1, 1965.
- 9/ These retics ere besed on the average of the beginning and sod of year resident patient population.
- 10) District of Calmain: Since a subscartal properties of the pationes of the St. Hismathes Replaced as mercaclement of the District of Columbia, total endacedom and resident patient rease par 100,000 peopletion are computed only for resident of the District of Columbia. District residents include 1,611 rotal admissions and 3,041 average daily resident patients.

Symbols used: * Indicates date which are estimates or include estimates.



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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

January 1967

Chevy Chase, Maryland 20203

Series MHB-H-11

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS UNITED STATES SEP 12 1967

1966

UNIVERSITY OF ILLINOIS

I. PURPOSE

Since the passage of the National Mental Health Act by Congress in 1946, the National Institute of Mental Health has been responsible for collecting and publishing data on the hospitalized mentally ill in the United States -- data necessary to answer requests from members of Congress, State legislators, project planners, hospital administrators and other persons interested in the field of mental illness. These data are extremely useful, for example, in planning for facilities and services, research and training, and legislation and financing. In an effort to provide current data, the provisions survey statistics tabulated in these Mental Health Statistics -- Current Facility Reports (Series MHB-H) are collected and published annually for certain patient movement and administrative categories, by state, for the state and county mental hospitals. Similar data are published for the Public Institutions for the Mentally Retarded (Series MHB-I) and Outpatient Psychiatric Clinics (Series MHB-J).

Certain trend data for the United States, covering the period 1960 through 1966 may be found in Table A. A graph depicts trends for some of the patient movement categories from 1950 through 1966. The data, by state for the current year, fiscal

1966, are found in Table 1. These data were obtained from the 1966 "Preliminary Survey of State and County Mental Hospitals". As these data are provisional, they are subject to some change. Data in greater detail—admissions with no prior psychiatric patient experience and resident patients by age, sex and mental disorder; personnel by occupation; maintenance expenditure by type—will appear in a future NIMH publication. Similar data for patients in the private mental hospitals, general hospitals with psychiatric services and outpatient psychiatric clinics will be available in other publications of the National Institute of Mental Health.

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year and populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

l. Admissions: This category includes three admission classifications. Admissions With No Prior Psychiatric

1.0

Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities -- state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

Releases Alive from = Patients Beginning + sions excluding - Deaths in Hospital	Resident Patients End of Year
---	--

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example: Suppose that the resident patient populations in State A and State B each de-

creased by 0.6 percent (or 6 per 1,000).

Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the patient movement ratios are computed to be the following:

State A	State B
323.7	522.2
229.5	454.8
99.9	73.5
	323.7 229.5

These ratios show that State B has much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve. the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 missions The ratio "net releases Admissions per 1,000 admissions" is a convenient index for summarizing the live net movement into and out of the hospital. For example, if the ratio is less than 100, there were more admissions than net releases. Note that this index does not relate net releases to admissions in the sense of a percent or rate because not all releases during a year derive from the admissions during that year. Some of these net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year.

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. If the patient base is enlarged to include admissions during the year the resulting sum is the best available estimate of patients under treatment during the year. This quantity is actually defined as:

	Patients Under Treatment	=	Resident Patient Beginning	+	sions excluding	+	Returns from Leave among Patients on Leave Beginning	
Liteachiei	_ iteachienc	ļ	of Year	ļ	Transfers_	l	Lof Year	

The estimate, however, does not include the last category, Returns from Leave, since these data are not available nationally.

The ratio of expenditures to patients under treatment appears to be a more realistic measure, but it does not solve the problem completely. While a larger share of the expenditures is required for the care of admissions, the index weights both admissions and resident patients equally.

The expenditure figures and ratios are not necessarily expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. County data have been included to insure greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 1.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

For example, net releases and total admissions per 1,000 average resident patients show considerable variation, with net release rates ranging from 229 to 2,845. Rates of admission and resident patients end of year per 100,000 civilian population also vary considerably for State to State. In addition, a high of \$12.62 per patient under

treatment per day to a low of \$1.91 further points out the considerable variation existing among states.

However, as has been emphasized in Sections A4-A6, comparison of state ratios, while serving to highlight areas of differences, are limited. More detailed classifications of movement categories by such variables as age, sex, diagnosis and time on books are needed. Data on age, sex, and diagnosis as well as more detail on personnel and maintenance expenditures will be available in the near future. This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

III. TRENDS

For the 11th consecutive year, the <u>RESI-DENT PATIENT POPULATION</u> in the State and county mental hospitals has decreased from 559,000 in 1955 to 452,000 in 1966 or a drop of 19% during the 11 year period. The 4.4 percent decrease in resident patients during fiscal 1966 was the largest single year decline ever and was double the decrease in resident patients that occurred between 1960 and 1961. This has occurred in spite of increases in the general population. Prior to 1956, the trend had been one of increasing numbers of residents, with the exception of only one year (1943) which saw a slight decrease.

Correspondingly, the number of NET RELEASES has continued to climb--atrend which began in the mid 1940's. In 11 years (1955-1966), the number has more than doubled. In 1966, there were 311,827 net releases as compared with 126,498 in 1955.

Along with increasing numbers of net releases and decreasing numbers of resident patients, the number of TOTAL ADMISSIONS has increased steadily, continuing another trend which began in the mid 1940's, In 1966, the number of admissions was approximately 330,000. This has resulted in a 1966 admission rate of 171 patients per 100,000 civilian population, compared with 110 in 1955.

The number of <u>DEATHS</u> in the hospitals has fluctuated--over the years. In 1966,

43,000 deaths were reported. This is the lowest number of deaths reported in the last 11 years.

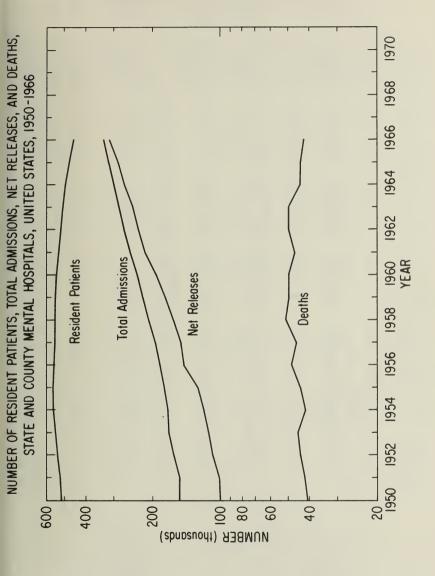
There are more than 205,000 FULL TIME PERSONNEL caring for the mentally ill in our 297 State and county hospitals. The ratio of personnel per patients has been an ever increasing one and in 1966 it reached one full time employee for every 2,2 patients.

The MAINTENANCE EXPENDITURES for the care of these patients have also greatly increased--going over a billion dollars in 1962--and still climbing. Converting these data into ratios, in 1966, \$4.43 was spent each day per patient under treatment as compared with \$2,33 in 1955.

Trends in certain patient movement categories are depicted graphically for 1950-1966 on page 5. These trends, as well as others, are indicated numerically for the years 1960-1966 in Table A and include estimates for undereporting wherever possible. Therefore, these totals, which are the most complete available, supersede totals published in prior reports. Also shown in Table A are the same data expressed as index numbers where 1960 is the base year. Thus, percent change since 1960 can be read directly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance, the 1962 index number for admissions is 114.9. This means that admissions in that year were 14.9 percent greater than 1960 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1960 was selected as the base year primarily because the number of resident patients, admissions, net releases, and death data were not atypical. Percentage change between the data for any two years other than 1960 may be computed by obtaining the difference between two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net releases in 1963 and 1964 are 127.4 and 139.3. The percent change between 1963 and 1964 is given by:

$$\frac{139.3 - 127.4}{127.4} = \frac{11.9}{127.4} = 9.34$$

Therefore, there was a 9.3 percent increase in net release between 1963 and 1964.



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RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, STATE AND COUNTY MENTAL HOSPITALS TABLE A

UNITED STATES, 1960 - 1966

1966	330,399 311,827 42,644 452,329	205,287 \$1,300,622,459 2,822,72	1,617.87
1965	314,027 285,760 45,964 475,202	205,019 \$1,204,345,256 2,503.05 6.86	1,502,27
1964	299, 561 268, 616 44, 824 490, 449	\$1,144,024,206 2,304.63	1,423,11
1963	283,591 245,745 49,052 504,604	195,356 \$1,081,537,167 2,131.49	1,352.93
1962	269,854 250,158 49,563 515,640	\$1,035,567,884 1,998:24	1,299.87
1961	252,742 215,596 46,880 527,456	\$974,614,297 1,836.42 5.03	1,233.80
1960	234,791 192,818 49,748 535,540	181,957 \$916,236,166 1,702.41	1,177.52
ITEM	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year Maintenance Expenditures Per Resident Patient Per Vear Per Day Per Patient under Treatment	Per Year Per Day

140.7	85.7	84.5		112.8	142.0	165,8	166,2		137.4	137.6
153,7	88.4	, *gg		112,7	131.4	147.0	147.5		127.6	128.0
127.6	90.1	9		111.4	124.9	135,4	135,5		120.9	120.8
120.8	98.6	3.48		107.4	118.0	125,2	125,6		114.9	115,2
114.9	9.66	c ogg		104.7	112.8	117.4	117.6		110,4	110.6
107.6	94.2	G * 0 8		102.9	106.4	107.9	108,2		104.8	105.0
100.0	100.0			100.0	100.0	100.0	100.0		100.0	100.0
All Admissions Net Releases	Deaths in Hospital	End of Year	Personnel (full time)	at End of Year	Maintenance Expenditures Per Resident Patient	Per Year	Per Day	Per Patient under Treatment	Per Year	Per Day

INDEX NUMBERS

- 6 -

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1966

STATE AND COUNTY MENTAL HOSPITALS

PATIENT MOVEMENT DATA

		1		Admission	s (excluding tra	nafers)	Net		
STATE	Number of Hospi- tals	Resident Patients Beginning of Year	Total	No Prior Psych. Inpatient Experience	With Prior Admis. to Hosp. in Same System	All Other	Releases Alive from Hospital	Deaths in Hospital	Resident Patienta End of Year
United States	297	476,401	330,399	150,702	124,743	54,954	311,827	42,644	452,329
Alabama	2	7,691	4,460	2,726	1,589	145	3,884	552	7,715
Alaska	2	310	353	222	107 417	24 590	351	9 218	303 1,469
Arizona Arkansas	1 3	1,690 2,779	2,123 4,454	1,116 2,470	1,302	682	2,126 4,692	188	2,353
California	12	30,318	27,855	11,197	11,587	5,071	29,726	1,789	26,658
Colorado 1/	3	3,934	4,754	1,677	1,182	1,895	4,802	231	3,655
Connecticut	3	7,908	8,810	3,901	4,246*	663*	8,492	953	7,273
Delaware 2/	2	1,667	1,426	917 539*	469 666*	40 957*	1,341	156 486	1,596 5,924
District of Col. 2/ Florids	1 4	6,131 9,992	2,162 4,865	1,942	1,361	1,562	1,883 4,081	921	9,855
Georgia	2	11,823	6,783	5,105	1,471*	207*	6,166	1,151	11,289
Hawaii	1	765	484	129	197	158	420	39	790
Idaho	2	740	832	559	265*	8*	769	84	719
Illinois Indians	15 9	30,837* 11,048	22,134*	6,942* 2,493	11,453* 1,515	3,739* 936	21,450* 4,296	3,206* 754	28,315* 10,942
Iova	6	2,220	5,249	2,211	2,319	719	5,601	151	1,717
Kansss	3	2,622	3,116	1,725	1,050	341	3,167	139	2,432
Kentucky	4	4,887	5,557	2,383	2,214	960 851*	5,094 6,774*	606 383*	4,744
Louisiana Maine	3	6,449 2,819	6,657* 1,870	3,292* 1,044	2,514* 607	219	1,629	305	5,949* 2,755
Maryland 3/	6	8,731	9,816	5,355	4,461		9,276	1,012	8,259
Massachusetts	13	17,253	12,155	6,717*	4,996*	442*	11,549	1,660	16,199
Michigan	9	18,711	8,767	3,606*	2,462*	2,699*	9,368	1,031	17,079
Minnesota Mississippi	8 2	6,592 5,584	6,002* 4,022	2,402* 2,307	2,710* 1,269*	890* 446*	6,169* 3,801	519 359	5,906 5,446
Missouri	7	10,466	6,532	3,526	1,873	1,133	6,283	782	9,933
Montana	1	1,518	2,048	806	449	793	1,980	173	1,413
Nebraska	4	3,327	2,598	1,000	1,017	581 136*	2,540 776	289 30	3,096 568
Nevada New Hampshire	1	516 2,239	858 1,459	572* 788	150 524	136*	1,326	202	2,170
New Jersey	12	19,428	12,331	6,481	4,816	1,034	10,722	2,291	18,746
New Mexico	1	890	1,168	492	345	331	1,292	71	695
New York	24	86,775	36,945	10,751*	12,931	13,263*	30,806	9,080	83,834
North Carolina North Dskota	4	9,334 1,479	13,034	6,554 678	5,495* 535	985* 187	12,423 1,362	1,126 93	8,819 1,424
Ohio	21	21,830	18,878	8,938	7,687*	2,253*	17,409	1,860	21,439
Oklahoma	4	5,454	5,168	2,435	1,744	989	5,503	390	4,729
Oregon	3	2,855	4,126	2,429	1,217*	480*	4,122	282	2,577
Pennsylvanis Rhode Ialand 4/	20 1	35,966 3,164	10,021 2,116	5,960 1,124	1,680 992	2,381	8,116 2,762	2,800 238	35,071 2,280
South Carolina	2	6,406	3,352	1,857	1,085	412	3,095	546	6,119
South Dakota	1	1,648	1,374	802	555	17	1,321	153	1,548
Tennessee Texas	6	7,767 15,652	8,393 14,683	3,605 7,040	3,827 6,166	961 1,477	8,123 13,326	671 1,295	7,366 15,714
Utah	1	592	1,019	465	367	187	1,015	64	532
Vermont	1	1,207	755	389	366		642	145	1,175
Virginis	3	11,544	6,453	3,240	2,009*	1,204* 650*	5,518	1,109	11,370
Washington West Virginia	3 5	3,820 5,060	3,694 3,087	1,466 1,586	1,578* 1,231	650* 270	3,657 2,644	359 498	3,498 5,005
Wisconsin	41	13,315	8,686	4,383	3,593	710	7,592	1,132	13,277
Wyoming	1	648	569	358	82	129	565	63	589

TABLE 1 (Continued)

Provisional patient movement and administrative data: united states, 1966 $^{1/}$

STATE AND COUNTY MENTAL HOSPITALS

PERSONNEL AND FINANCIAL DATA

	Average Daily	Patients	Total	Mai	ntenance Expendit	ures
	Resident		Full-time	Total	Daily Exp	enditures
STATE	Patient	under	Personnel	Amount		Per Patient
	Population	Treatment	End of Year	Amount	Per Resident	under
					Patient 5/	Treatment 6/
United States	460,910	806,800	205,234	\$1,300,622,459	7.73	4.43
Alabama	7,663	12,151	2,040	11,142,966	3.98	2.51
Alaska	316	663	346*	3,054,600*	26.48*	12.62*
Arizona	1,605	3,813	719	5,197,074	8.87	3.73
Arkansas	2,552	7,233	1,567	7,820,618	8,40	2.96
California	27,306	58,173	14,293	116,340,115	11.67	5.48
Colorado 1	2,871	8,688	3,161	19,049,740*	18.18*	8.70*
Connecticut	7,572	16,718	3,764	27,093,992	9.80	4.44
Delaware 2/	1,638	3,093	1,043	5,065,779	8,47	4.49
District of Columbia 2/	6,037	8,293	3,836	29,973,473	13.60	9.90
Florida	9,831	14,857	4,739	21,774,719	6.07	4.02
Georgia	11,478	18,606	3,344	22,960,751*	5.48*	3.38*
Hawaii	796	1,249	403	3,160,199	10.88	6.93
Idaho	735	1,572	485	2,973,987	11.09	5.18
Illinois	29,779	52,971*	12,670*	98,007,198*	9.02*	5.07*
Indiana	10,952	15,992	5,227	30,935,231	7.74	5.30
Lowa	1,972	7,469	2,001	11,674,804*	16.22*	4.28*
Kansas	2,443	5,738	2,283	13,531,438	15.17	6.46
Kentucky	4,774	10,444	2,208	12,988,894	7.45	3.41
Louisiana	6,199	13,106*	2,711	14,521,574	6.42	3.04
Maine <u>8</u> /	2,780	4,689	1,100	6,246,114	6.26	3.72
Maryland	8,201	18,547	3,857	25,705,470	8.59	3.80
Massachusetts 7/	16,748	29,408	8,648	56,258,768	9.20	5,24
Michigan	17,923	27,478	7,048	56,429,081	8,63	5.63
Minnesota	6,289	12,594	3,224	19,346,092	8.43	4.21
Mississippi	5,485	9,606	1,746	6,693,656	3.34	1.91
Missouri	10,209	16,998	5,298	27,658,264*	7.42*	4.46*
Montana	1,481	3,566	595	3,554,902	6.58	2.73
Nebraska	3,252	5,925	2,392	11,217,260	9,45	5.19
Nevada	553	1,374	260	1,976,069	9.79	3.94
New Hampshire	2,222	3,698	980	5,651,553	6.97	4.19
New Jersey	19,119	31,759	9,172	53,769,858	7.71	4.64
New Mexico	718	2,058	465	3,035,851	11.58	4.04
New York	85,087	123,720	34,873	218,355,575	7.03	4.84
North Carolina	9,034	22,368	4,009	23,689,336	7.18	2.90
North Dakota	1,462	2,879	651	4,019,375	7.53	3.82
Ohio 9/	21,789	40,708	8,538	50,572,034	6.38	3.41
Oklahoma	5,091	10,622	2,645	12,034,367	6.48	3.10
Oregon 10/	2,689	6,981	1,435	9,273,516	9.45	3.64
Pennsylvania 10/	35,635	45,987	14,793	91,148,675	7.01	5.43
Rhode Island 4/	1,989	5,280	942	7,417,053	10.22	3.85
South Carolina	6,288	9,760	1,898	10,108,205	4.40	2.84
South Dakota	1,621	3,022	784	3,658,073	6.18	3.32
Tennessee	7,495	16,160	3,038	15,270,161	5.58	2.59
Texas	15,462	30,335	5,625	28,857,275	5.11	2,61
Utah	550	1,611	485	2,700,621	13.45	4.59
Vermont	1,160	1,962	530	3,101,859	7.33	4.33
Virginia	11,469	17,997	3,924	20,254,961	4.84	3.08
Washington	3,680	7,514	2,211	15,210,628	11.32	5.55
West Virginia	5,007	8,147	1,688	8,226,230	4.50	2.77
Wisconsin	13,293	22,001	5,202*	39,829,425*	8.21*	4.96*

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TABLE 1 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, 1966

STATE AND COUNTY MENTAL HOSPITALS

PATIENT MOVEMENT RATIOS

	Rate per 100,000	Civilian Population 11/	Per 1,000 Av	Per 1,000 Average Resident Patients 12/				
STATE	Tots1 Admissions	Resident Pstients st End of Yesr	Total Admissions	Net Relesses Alive from Hospital	Desths in Hospitsl	per 1,000 Totsl Admissions		
United States	171.4	233.5	711.5	671.5	91.8	943.8		
Alsbama	128.4	221.5	579.0	504.2	71.7	870.9		
Alsska	148.3	125.7	1,149.8	1,143.3	29.3	994.3		
Arizona	134.7	91.9	1,343.7	1,345.6	138.0	1,001.4		
Arkansas	229.7	120.9	1,735.8	1,828.5	73.3	1,053.4		
California	152.2	143.9	977.8	1,043.5	62.8	1,067.2		
Colorado 1/	246.4	188.3	1,252.7	1,265.3	60.9	1,010.1		
Connecticut	310.0	254.0	1,160.6	1,118.7	125.5	963.9		
Delaware 2/	284.6	316.0	873.8	821.7	95.6	940.4		
District of Col. 2/	224.4	628.8	358.7	312.4	80.6	871.0		
Florida	84.3	168.7	490.2	411.2	92.8	838.8		
Georgia	156.9	259.5	587.0	533.6	99.6	909.0		
Hawaii	73.1	118.4	622.1	539,8	50.1	867.8		
Idaho	120.9	104.4	1,139.7	1,053.4	115.1	924.3		
Illinoia	208.3*	265.6*	748.4*	725.3*	108.4*	969.1*		
Indiana	101.0	222.9	449.7	390.7	68.6	868.9		
Iowa	190.7	62.5	2,665.8	2,844.6	76.7	1,067.1		
Kansas	140.5	109.6	1,233.1	1,253.3	55.0	1,016.4		
Kentucky	177.2	151.1	1,153.9	1,057.7	125.8	916.7		
Louisiana	187.9*	167.0*	1,073.9*	1,092.8*	61.8*	1,017.6*		
Maine	193.2	284.9	671.0	584.5	109.4	871.1		
Maryland	279.7	233.1	1,155.5	1,091.9	119.1	945.0		
Massachusetts	228.0	303.2	726.7	690.5	99.2	950.1		
Michigan	105.3	204.5	489.9	523.5	57.6	1,068.6		
Minnesota	168.5*	165.4	960.5*	987.2*	83.1	1,027.8*		
Missisaippi	175.4	236.9	729.3	689.2	65.1	945.1		
Missouri	146.3	222.2	640.4	616.0	76.7	961.9		
Montana	295.1	203.6	1,397.0	1,350.6	118.0	966.8		
Nebraska	180.2	214.7	808.8	790.8	90.0	977.7		
Nevada	196.8	127.4	1,583.0	1,431.7	55.4	904.4		
New Hampshire	217.4	321.5	661.7	601.4	91.6	908.8		
New Jersey	181.6	273.9	646.0	561.7	120.0	869.5		
New Mexico	117.0	69.4	1,472.9	1,629.3	89.5	1,106.2		
New York	203.6	460.1	433.1	361.1	106.4	833.8		
North Carolins	268.0	180.6	1,435.9	1,368.6	124.0	953.1		
North Dakota	219.1	223.2	964.2	938.0	64.0	972.9		
Ohio	184.1	208.4	872.6	804.7	86.0	922.2		
Oklahoma	213.8	195.4	1,014.9	1,080.7	76.6	1,064.8		
Oregon	212.6	132.2	1,519.1	1,517.7	103.8	999.0		
Pennsylvania , .	86.7	303.3	282.1	228.5	78.8	809.9		
Pennsylvania Rhode Island 4/	242.1	260.3	777.4	1,014.7	87.4	1,305.3		
South Carolina	134.3	244.2	535.5	494.2	87.2	922.8		
South Dskota	202.7	229.0	859.8	826.7	95.7	961.4		
Tennessee	218.7	191.2	1,109.2	1,073.5	88.7	967.8		
Texas	139.9	148.8	936.2	849.7	82.6	907.6		
Utah	102.2	53.0	1,813.2	1,806.0	113.9	996.1		
Vermont	186.4	290, 1	633.9	539.0	121.7	850.3		
Virginia	150.0	262.5	563.2	481.6	96.8	855.1		
Washington	126.4	119.5	1,009.6	999.5	98.1	990.0		
West Virginia	171.0	279.0	613.4	525.3	98.9	856.5		
Wisconsin	209.5	319.4	653.3	571.0	85.1	874.1		
Wyoming	175.1	181.2	919.2	912.8	101.8	993.0		

- 1/ Colorado: Fort Logan Mental Health Center's data on personnel and maintenance expenditures are unavailable and, therefore, the maintenance expenditure ratios for Colorado, exclude Fort Logan (Fort Logan reported 2,686 patients under treatment). Regident patient and axisission data include all patients active on the books. (Inpatient, Family Care, Malfway House, Evening Hospital, Outpatient)
- 2/ District of Columbia: Since a substantial proportion of the patients at Saint 11.2auchush [sep; lai a c non-exidents of the District of Columbia, total admissions and resident patient rates per 100,000 population are computed only for residents of the District of Columbia. District residents include 1,773 total admissions and 4,980 resident patients.
- 3/ Maryland: Data only collected for the classifications "First Admission" and "Readmission".
- 4/ Rhode Island: A major reorganization of services within the Rhode heland Medical Center produced unusually large changes in the data for some of the movement categories compared with those for previous years,
- 5/ Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- 6/ Per patient under treatment maintenance expenditures are based on the patients under treatment (resident patients beginning of year plus total admissions) for hospitals reporting expenditures.
- 2/ Massachusetts: Personnel data for Massachusetts and the personnel and financial data for Massachusetts Correctional Institute are unavailable. Data shown are for the year 1965.

- 8/ Maine: Pineland Hospital & Training Center is a dual purpose institution, Only data pertaining to the mentally III patients are reported here. Bate on maintenance expenditures are unavailed to the maintenance expenditure article for Maine occlude Pineland Logital (Pineland Hospital reported 85 patients under treatment).
- 9/ Chio: Data on personnel and maintenance expenditures are unavailable for two facilities (Apple Oreek and Mt. Vernon Hospitals) and, therefore, the maintenance expenditure ratios for Chio exclude these two. (These hospitals reported 60 patients under treatment). The contract of the contract of the personnel of the personnel and maintenance expenditure data, however, pertain to all patients in the hospital.
- 10) Permylvania. Mestern State School and Hospital is a dual purpose institution. Only data pertaining to the mentally ill patients are reported here. Data on personnel and maintenance expenditures are unavailable and, therefore, the maintenance expenditure ratios for Pennsylvania exclude Western State School and Hospital (Western State School and Hospital reported SC patients under treatment).
- 11/ Admission and resident patient rates are per 100,000 estimated civilian population. Source: U. S. Bureau of the Census, <u>Current Population Reports</u>, Series P-25, No. 348, provisional estimate for 1985.
- 12/ Average resident patient rates are based on the average of the beginning and end of year resident patient population.

Symbols used: * indicates data which are estimates or include estimates:



U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

NATIONAL CLEARINGHOUSE FOR MENTAL HEALTH INFORMATION

January, 1968

Chevy Chase, Maryland 20203

Series MHB-H-12

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS UNITED STATES

July 1, 1966 - June 30, 1967

I. PURPOSE

Since the passage of the National Mental Health Act by Congress in 1946, the National Institute of Mental Health has been responsible for collecting and publishing data on the hospitalized mentally ill in the United States -- data necessary to answer requests from members of Congress, State legislators, project planners, hospital administrators and other persons interested in the field of mental illness. These data are extremely useful, for example, in planning for facilities and services, research and training, and legislation and financing. In an effort to provide current data, the provisions survey statistics tabulated in these Mental Health Statistics -- Current Facility Reports (Series MHB-H) are collected and published annually for certain patient movement and administrative categories, by state, for the state and county mental hospitals. Similar data are published for the Public Institutions for the Mentally Retarded (Series MHB-I) and Outpatient Psychiatric Clinics (Series MHB-J).

Certain trend data for the United States, covering the period 1963 through 1967 may be found in Table A. A graph depicts trends for some of the patient movement categories from 1950 through 1967. The data, by state for the current year, fiscal

1967, are found in Table 1. These data were obtained from the 1967 "Preliminary Survey of State and County Mental Hospitals". As these data are provisional, they are subject to some change. Data in greater detail--admissions with no prior psychiatric patient experience and resident patients by age, sex and mental disorder; personnel by occupation; maintenance expenditure by type--will appear in a future NIMH publication. Similar data for patients in the private mental hospitals general hospitals with psychiatric services and outpatient psychiatric clinics will be available in other publications of the National Institute of Mental Health,

II. DESCRIPTION AND LIMITATIONS OF THE DATA

A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

1. Admissions: This category includes three admission classifications. Admissions With No Prior Psychiatric

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Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number of first admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities -- state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospital less the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:

Net Releases Alive from	11	Resident Patients Beginning	All Admis- sions excluding	-	Deaths in Hospital	_	Resident Patients End of	
Hospital		of Year	Transfers		Hospital		Year	

Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.
- 5. Patient Movement Ratios 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example: Suppose that the resident patient populations in State A and State B each de-

creased by 0.6 percent (or 6 per 1,000).

Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the patient movement ratios are computed to be the following:

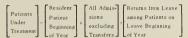
Movement Category	State A	State E
Admissions Net Releases	323 . 7 229.5	522.2 454.8
Deaths	99.9	73.5

These ratios show that State Bhas much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 Admissions The ratio "net releases per 1,000 admissions" is a convenient index for summarizing the live net movement into and out of the hospital. For example, if the ratio is less than 100, there were more admissions than net releases. Note that this index does not relate net releases to admissions in the sense of a percentor rate because not all releases during a year derive from the admissions during that year. Some of these net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year.

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. If the patient base is enlarged to include admissions during the year the resulting sum is the best available estimate of patients under treatment during the year. This quantity is actually defined as:



The estimate, however, does not include the last category, Returns from Leave, since these data are not available nationally.

The ratio of expenditures to patients under treatment appears to be a more realistic measure, but it does not solve the problem completely. While a larger share of the expenditures is required for the care of admissions, the index weights both admissions and resident patients equally,

The expenditure figures and ratios are not necessarily expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. County data have been included to insure greater comparability among states in expenditures per patient.

C. Interstate Variation

Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 1.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

For example, net releases and total admissions per 1,000 average resident patients show considerable variation, with net release rates ranging from 259 to 3,083, Rates of admission and resident patients end of year per 100,000 civilian population also vary considerably for State to State. In addition, a high of \$14.47 per patient under

treatment per day to a low of \$2.21 further points out the considerable variation existing among states.

However, as has been emphasized in Sections A4-A6, comparison of state ratios, while serving to highlight areas of differences, are limited. More detailed classifications of movement categories by such variables as age, sex, diagnosis and time on books are needed. Data on age, sex, and diagnosis as well as more detail on personnel and maintenance expenditures will be available in the near future. This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.

III. TRENDS

For the 12th consecutive year, the <u>RESIDENT PATIENT POPULATION</u> in the State and county mental hospitals has decreased from 559,000 in 1955 to 426,000 in 1967 or a drop of 24g during the 12 year period. The 6.0 percent decrease in resident patients during fiscal 1967 was the largest single year decline ever and was triple the decrease in resident patients that occurred between 1960 and 1961. This has occurred in spite of increases in the general population. Prior to 1956, the trend had been one of increasing numbers of residents, with the exception of only one year (1943) which saw a slight decrease.

Correspondingly, the number of NET RELEASES has continued to climb - a trend which began in the mid 1940's. In 12 years (1955-1967), the number has almost tripled. In 1967, there were 335,737 net releases as compared with 126,498 in 1955.

Along with increasing numbers of net releases and decreasing numbers of resident patients, the number of TOTAL ADMISSIONS has increased steadily, continuing another trend which began in the mid 1940's. In 1967, the number of admissions was approximately 349,000. This has resulted in a 1967 admission rate of 179 patients per 100,000 civilian population, compared with 110 in 1955.

The number of <u>DEATHS</u> in the hospitals has fluctuated--over the years. In 1967,

40,000 deaths were reported. This is the lowest number of deaths reported in the last 12 years.

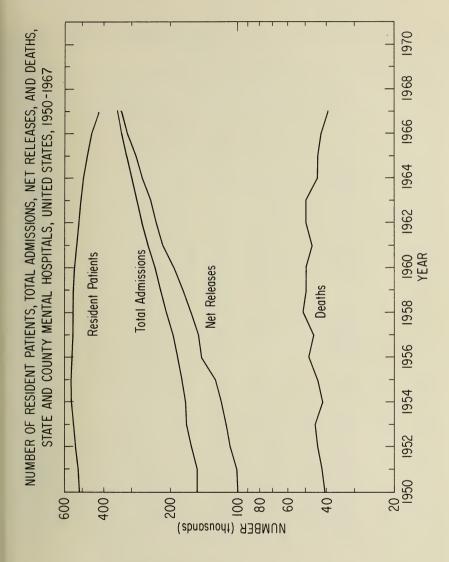
There are approximately 219,000 FULL TIME PERSONNEL caring for the mentally ill in our 304 State and county hospitals. The ratio of personnel per patients has been an ever increasing one and in 1967 it reached one full time employee for every 2 patients.

The MAINTENANCE EXPENDITURES for the care of these patients have also greatly increased--going over a billion dollars in 1962--and still climbing. Converting these data into ratios, in 1967, 44.84, was spent each day per patient under treatment as compared with \$2,33 in 1955,

Trends in certain patient movement categories are depicted graphically for 1950-1967 on page 5. These trends, as well as others, are indicated numerically for the years 1963-1967 in Table A and include estimates for under-reporting wherever possible. Therefore, these totals, which are the most complete available, supersede totals published in prior reports. Also shown in Table A are the same data expressed as index numbers where 1963 is the base year. Thus, percent change since 1963 can be read directly from Table A with increases being numbers greater than 100 and decreases being numbers less than 100. For instance, the 1964 index number for admissions is 105.6 This means that admissions in that year were 5.6 percent greater than 1963 admissions. An index number is computed by dividing each of the observed numbers by the corresponding number in the base time period for each movement and administrative data category. The year 1963 was selected as the base year primarily because the number of resident patients, admissions, net releases, and death data were not atypical. Percentage change between the data for any two years other than 1963 may be computed by obtaining the difference between two index numbers concerned and dividing this difference by the index number for the earlier year. For example, the index numbers for net re-leases in 1964 and 1965 are 109.3 and 116.3 The percent change between 1964 and 1965 is given by:

$$\frac{116.3 - 109.3}{109.3} = \frac{7.0}{109.3} = 6.4$$

Therefore, there was a6.4 percent increase in net release between 1964 and 1965.



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RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, STATE AND COUNTY MENTAL HOSPITALS UNITED STATES, 1963 - 1967*

1967	548,561 535,737 59,608 426,009	218,948	\$1,415,480,302	5,226.05	1,768.08
1966	527,014 508,636 42,753 452,273	206,781	\$1,300,380,295	2,810.31	1,618,15
1965	314,027 285,760 43,964 475,202	204,879	\$1,204,345,256	2,503.99	1,499.75
1964	299,561 268,616 44,824 490,449	202,614	\$1,144,024,206	2,304.63	1,423.11
1963	283, 591 245, 745 49, 052 504, 604	195,356	\$1,081,537,167	2,131,49	1,352.93
ltem	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year	Maintenance Expenditures Per Resident Patient	Per Year Per Day Per Patient under Treatment	Per Year Per Day
	1963 1964 1965 1966	1965 1964 1965 1966 1966 1966 1966 1966 1966 1966	1965 1964 1966 1966 1966 1966 1966 1966 1966	283,591 289,561 314,027 328,760 42,927 328,753 42,024 475,202 42,753 420,449 475,202 475,202 42,753 450,449 475,202 306,781 306,781 31,144,024,206 \$1,204,345,286 \$1,300,380,295	283,591 285,591 285,745 245,745 245,745 249,0624 240,0449 2475,202 245,755 206,761 195,356 20,144,024,206 31,204,345,256 31,300,380,295 2,131,49 2,304,63 2,505,99 2,1031 2,304,63 2,505,99 2,610,31 2,505,99 2,610,31

INDEX NUMBERS

- 6 -

122.9	136,6	80.7	84.4	0 7	1.6.1	130,9	151.4	151,4		130.7	130.5
115.3	125,6	87.2	9.68	, , , ,	0.00	120.2	131.8	151,8		119.6	119.4
110.7	116.3	9.68	94.2	, ,	D. #0	111.4	117.5	117.5		110.9	110.8
105,6	109.3	91,4	97.2	7 201	7.001	105.8	108,1	107.9		105.2	104.9
100.0	100.0	100.0	100.0	0		100.0	100.0	100.0		100.0	100.0
All Admissions	Net Releases	Deaths in Hospital	Resident Patients End of Year	Personnel (full time)	1000	Maintenance Expenditures	Per Year	Per Day	Per Patient under Treatment	Per Year	Per Day

^{*} These data include estimates for under-reporting wherever possible.

TABLE 1

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATE UNITED STATES, JULY 1, 1966 - JUNE 30, 1967

STATE AND COUNTY MENTAL HOSPITALS
PATIENT MOVEMENT DATA
PATIENT MOVEMENT DATA

			Adm	issions (exc	luding transfer	s)	Net		Resident
STATE	Number of Hospi- tals	Resident Patients Beginning of Year	Total	No Prior Psychiatric Inpatient Experience	With Prior Admission to Hospital in Same System	All Other	Releases Alive from Hospital	Deaths in Hospital	Patients End of Year
United States	304	452,793	348,561	1/136,986	2/140,809	1/37,778	335,737	39,608	426,009
Alabama 3/	2	7,715	4,296	2,156*	1,551	589*	3,877	414	7,720
Alaska 4/	2	303	300	123	154	23	395	5	203
Arizona	1	1,479	2,117	1,007*	686	424	2,378	124	1,094
Arkansas	2	2,298	3,051	1,395	1,111	545	3,241	168	1,940
California	12	26,658	29,906	12,705	12,979	4,222	32,978	1,478	22,108
Colorado	2	2,671	2,984	1,312	1,309	363	3,141	150	2,364
Connecticut	4	7,446	10,625	4,197	5,708	720	10,475	804	6,792
Delaware5/	2	1,596	1,456	849	56	551	1,474	194	1,384
Dist.of Col.6/	1	5,924	2,518	582*	743*	1,193*	2,408	453	5,581
Florida	4	9,855	4,824	1,753	1,356	1,715	3,802	972	9,905
Georgia 7/	2	11,290	6,880	4,783	1,877	220	6,562	911	10,697
Hawaii	1	790	437	131	170	136	519	46	662
Idaho	2	719	752	395	265	92	716	61	694
Illinois	17	28,319	23,268*	7,301*	12,812*	3,155*	23,964*	2,839*	24,784*
Indiana	10	10,941	4,650	2,247	1,503	900	4,156	776	10,659
lowa	6	1,719	5,340	2,216	2,410	714	5,244	132	1,683
Kansas	3	2,432	3,355	1,822	1,159	374	3,285	116	2,386
Kentucky	4	4,744	6,384	2,480	3,007	897	6,235	519	4,374
Louisiana8/	3	5,947	8,663	3,962*	3,295*	1,406*	8,651	332	5,627
Maine 9/	3	2,758	1,998	1,096	694	208	1,596	332	2,828
Maryland 10/	7	8,437	11,289	5,297	5,992	0	10,637	854	8,235
Massachusetts11/	14	16,199	13,083	6,792*	5,850*	441*	11,909	1,663	15,710
Michigan	10	17,182	10,003				10,114	969	16,102
Minnesota12/	8	5,906	5,872	2,801	2,781	290	6,258	417	5,103
Mississippi	2	5,185	4,105	2,319	1,508	278	3,786	347	5,157
Missouri Montana Nebraska Nevada New Hampshire	8 1 4 1 1	9,927 1,413 3,086 558 2,250	7,617 2,140 1,882 920 1,690	3,901 813 940 402 888	2,555 701 151 330	1,161 1,327 241 367 472	7,717 2,033 1,971 946 1,514	799 110 268 47 200	9,028 1,410 2,729 485 2,226
New Jersey 13/	12	18,746	13,074	6,784	5,613	677	11,604	2,244	17,972
New Mexico	1	695	1,466	444	184	838	1,473	53	635
New York 14/	24	84,797	41,336		18,351		35,681	9,077	81,375
North Carolina	4	8,818	13,956	6,989	6,967	0	13,136	947	8,691
North Dakota	1	1,424	1,452	571	619	262	1,457	128	1,291
Ohio 15/ Oklahoma Oregon Pennsylvania 16/ Rhode Island 17/	21 4 3 20 1	21,438 4,729 2,577 35,071 1,986	18,958 5,895 4,489 9,617 2,243	8,897 2,747 2,145 5,587 974	7,871* 2,105 1,745 1,675 1,269	2,190* 1,043 599 2,355	17,709 6,316 4,411 8,846 2,253	1,775 302 249 2,635 33	20,912 4,006 2,406 33,207 1,943
South Carolina	2	6,119	3,636	1,566	1,261	809	3,178	469	6,108
South Dakota	1	1,548	1,340	744	596	0	1,257	181	1,450
Tennessee <u>18</u> /	5	7,366	8,193	3,510*	3,750*	933*	7,909	622	7,028
Texas <u>19</u> /	8	15,714	14,617	6,919	6,298	1,400	13,986	1,310	15,035
Utah	1	532	998	420	359	219	962	53	515
Vermont	1	1,175	726	373	353	0	712	120	1,069
Virginia	5	11,535	7,290	3,481	2,370	1,439	6,456	1,039	11,330
Washington	3	3,498	3,791	1,454*	1,518*	819*	3,806	297	3,186
West Virginia	5	5,350	3,693	1,827	1,478	388	3,688	482	4,873
Wisconsin 20/	42	13,339	8,862	4,526	3,608	728	8,325	1,067	12,809
Wyoming	1	589	524	363	106	55	590	25	498

NOTE: Refer to page 10 for footnotes

TABLE 1 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, JULY 1, 1966 - JUNE 30, 1967 STATE AND COUNTY MENTAL HOSPITALS PERSONNEL AND FINANCIAL DATA

			I	1		
	Average Daily	Patients	Total	Mainten	ance Expenditur	
STATE	Resident Patient Population	under Treatment	Full-Time Personnel End of Year	Total Amount	Per Resident Patient <u>21</u> /	Per Patient under Treatment 22/
United States	438,587	801,354	218,948	\$1,415,480,302	\$8.84 .	\$4.84
Alabama 3/	7,726	12,011	2,122	12,134,778	4,30	2.77
Alaska 4/	179	603	224	3,185,192	32,37	14.47
Arizona	1,202	3,596	894	4,997,316	11,39	3.81
Arkansas	2,088	5,349	1,596	8,358,073	10,97	4.28
California	23,284	56,564	12,479	127,689,086	15,02	6.18
Colorado	2,528	5,655	2,658	19,465,675	21.10	9.43
Connecticut	7,117	18,071	4,073	29,185,969	11.24	4.42
Delaware <u>5</u> /	1,456	3,052	960	5,339,664	10.05	4.79
District of Columbia <u>6</u> /	5,765	8,442	4,014*	32,499,394	15.44	10.55
Florida	9,931	14,679	4,736	22,812,319	6.29	4.26
Georgia 7/	10,996	18,170	3,578	25,915,562	6.46	3.91
Hawaii	720	1,227 '	398	3,419,256	13.01	7.64
Idaho	713	1,471	494	3,178,370	12.21	5.92
Illinois	26,682	51,587*	14,630*	108,269,424	11.12	5.75*
Indiana	10,753	15,591	5,614	33,064,994	8.42	5.81
lowa	1,685	7,059	1,964	12,497,068	20.32	4.85
Kansas	2,411	5,787	2,279	13,618,865	15.48	6.45
Kentucky	4,563	11,128	2,329	14,490,320*	8.70*	3.57*
Louisiana	5,665	14,610	2,711	17,323,902	8.38	3.25
Maine <u>9</u> /	2,785	4,756	1,102	7,194,550	7.08	4.14
Maryland 10/	8,426	19,726	4,404	27,817,464	9.04	3.86
Massachusetts 11/	15,936	29,282	9,179	59,918,462	10.25	5.61
Michigan	16,789	27,185	7,511	59,635,976	9.73	6.01
Minnesota12/	5,583	11,778	3,037*	20,151,615*	9.89*	4.69*
Mississippi	5,138	9,290	1,859	7,482,481	3.99	2.21
Missouri	9,538	17,544	5,928	34,690,699*	9.96*	5.42*
Montana	1,428	3,553	578	3,836,179	7.36	2.96
Nebraska	2,933	4,968	2,443	12,511,229	11.50	6.79
Nevada	534	1,478	255	2,010,973	10.32	3.73
New Hampshire	2,174	3,940	1,056	6,261,674	7.89	4.39
New Jersey 13/	18,446	31,820	9,359	60,225,606	8.95	5.19
New Mexico	644	2,161	502	2,838,377	12.08	3.60
New York14/	82,876	126,133	43,297	232,758,081	7.69	5.06
North Carolina	8,803	22,774	4,026	24,201,115	7.53	2.91
North Dakota	1,373	2,876	642	4,132,519	8.25	3.94
Ohio 15/	21,281	40,396	8,763	52,960,513	6.83	3.59
Oklahoma	4,285	10,624	2,733	12,815,363	8.19	3.30
Oregon	2,485	7,066	1,301	9,546,675	10.53	3.70
Pennsylvania 16/	34,370	44,688	15,186	102,623,548	8.19	6.30
Rhode Island 17/	1,941	4,229	935	7,262,241	10.25	4.70
South Carolina	6,137	9,755	2,118	12,315,210	5.50	3.46
South Dakota	1,498	2,888	866	4,011,866	7.34	3.81
Tennessee 18/	7,147	15,559	3,170	16,869,312	6.47	2.97
Texas 19/	15,193	30,331	5,766	30,625,590	5.52	2.77
Utah	533	1,530	485	2,973,223*	15.28	5.32
Vermont	1,163	1,901	565	3,652,189	8.60	5.26
Virginia	11,581	18,825	4,326	22,654,691	5.44	3.42
Washington	3,308	7,289	2,285	17,864,849	14.80	6.71
West Virginia	5,240	9,043	1,987	9,091,781	4.75	2.75
Wisconsin <u>20</u> /	13,005	22,201	5,246*	45,343,634*	9.55*	5.60*
Wyoming	550	1,113	285	1,957,390	9.75	4.82

NOTE: Refer to page 10 for footnotes

TABLE 1 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, JULY 1, 1966 - JUNE 30, 1967

STATE AND COUNTY MENTAL HOSPITALS

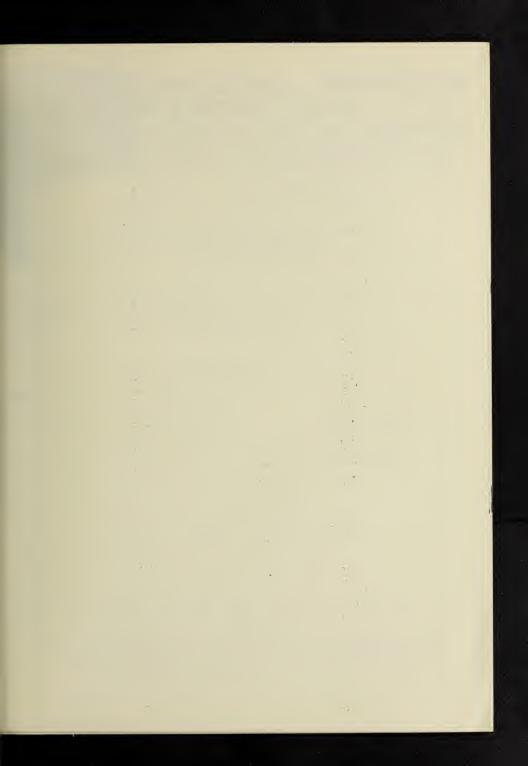
PATIENT MOVEMENT PATIOS

	·					
	Rate per 100,000 C		Per 1,000	Average Resident	Patients 24/	Net Releases per
STATE	Total	Resident Patients	Total	Net Releases	Deaths	1.000 Total
	Admissions	at	Admissions	Alive from ' Hospital	in Hospital	Admissions
United States	179.0	End of Year 217.6	793.7	764.8	90,2	963.6
Alabama 3/	123.0	220.3	556.6	502.3	55.6	902.5
Alaska 4/	127.1	85,3	1,185.8	1,561.3	19.8	1,316.7
Arizona Arkansas	132.8 156.3	68,1 99,1	1,644.9 1,439.8	1,847.7	· 96.3 79.3	1,123.3
California	160.7	117.6	1,226.5	1,352.5	60,6	1,102.7
Colorado	155,3	122.7	1,185.1	1,247.4	59.6	1,052.6
Connecticut Delaware 5/	367.8 284.9	233,2 268,7	1,492.5 977.2	1,471.4	112.9 130.2	985.9 1,012.4
District of Columbia 6/	248.0	587.9	437.7	418.6	78,7	956.3
Florida	82.4	167.8	488.3	384.8	98.4	788,1
Georgia 🗹 Hawaii	157.8 64.4	243.7 96.8	625.8 601.9	\$96.9 714.9	82.9 63.4	953.8 1,187.6
Idaho	108.4	99.9	1,063.6	1,012.7	86.3	952,1
Illinois Indiana	216.0* 93:7	229.0* 213.7	876.3* 430.6	902.5*	106.9* 71.9	1,029.9* 893.8
lowa	193.8	61,2	·	3,082,9	77.6	982.0
Kansas	149.2	105.8	3,139.3 1,392.7	1,363.6	48.2	979.1
Kentucky Louisiana <u>8</u> /	203.4 240.8	139.2 155.4	1,400.3	1,367.6	113.8 57.4	976.7 998.6
Maine 9/	208.1	295,2	715.4	571.4	118.9	798.8
Maryland 10/	316,0	228,4	1,354.2	1,276.0	102.4	942.2
Massachusetts 11/ Michigan	243.4 117.6	291,6 188,0	820.0 601.1	746.4 607.7	104.2 58.2	910.3 1,011.1
Minnesota 12/	164.4	142.7	1,066,7	1,136.8	75.7	1,065.7
Mississippi	177.4	222,3	793.9	732.2	67.1	922,3
Missouri Montana	167.6 309.2	197.8 204.1	803.7	814.2	84.3 77.9	1,013.1
Nebraska	132.1	191.8	1,515.6 647.2	1,439.8 677.8	92.2	1,047.3
Nevada New Hampshire	213.5 249.6	111,0 326,9	1,762.5 786.4	1,812.3 704.5	90.0 93.1	1,028.3
New Jersey 13/ New Mexico	189.6 149.0	258.7 64.5	712.1	632.1 2,215.0	122,2 79.7	887.6 1,004.8
New York <u>14/</u> North Carolina	226.7	444.6	497.5	429.4	109.2	863.2
North Dakota	285.3 293.9	176.9 205.9	1,594.1	1,500.4	108.2 94.3	941.2
Ohio 15/	182.4	200.4	895.3	836.3	83.8	934.1
Oklahoma	241.3	163.7	1,349.6	1,446.0	69.1	1,071.4
Oregon Pennsylvania <u>16</u> /	226.6 82.9	120.7 286.0	1,801.4 281.7	1,770.1	99.9 77.2	982.6 919.8
Rhode Island 17/	256.6	222.1	1,141.5	1,146.6	16.8	1,004.5
South Carolina	144.4	241.8	594.7	519.8	76.7	874.0
South Dakota Tennessee <u>18</u> /	200.0 213.0	217.4 182.2	893.9 1,138.4	838.6 1,098.9	120.7 86.4	938.1 965.3
Texas <u>19</u> /	137.9	141.1	950.7	909.7	85.2	956.8
Utah	98.6	50.5	1,904.6	1,835.9	101.1	963.9
Vermont Virginia	175.4 168.4	257.0 260.5	647.1 637.6	634.6 564.7	107.0 90.9	980.7
Washington	126.1	105.2	1,134.4	1,138.8	88.9	1,004.0
West Virginia Wisconsin 20/	204.8 2fr.3	271.2 306.1	722.4 ×	721.4 636.8	94.3 81.6	998.6 939.4
_	,				1.29	
Wyoming	167.4	160.1	963.2	1,084.6	46.0	- 1,126.0

NOTE: Refer to page 10 for footnotes

- 3/ Alabama: Data cover fiscal year ending September 30, 1967.
- 4/ Alaska: Contract for the partial use of Morningside Hospital, Portland, Oregon, terminated June 30, 1967 and all Alaskan patients were withdrawn by June 27. Data for Morningside Hospital are included in resident patients beginning of year (118), deaths (1), and maintenance expenditures (an estimated \$1,070,000).
- 5/ Delaware: As a result of a fire at Delaware State Hospital August 16, 1966, 268 patients were transferred out. All but 80 were returned within six weeks. Thirty were assigned to Governor Bacon Health Center at Delaware City and 59 to the Hospital for the Mentally Retarded at
- 6/ District of Columbia: Since a substantial proportion of the patients at Saint Elizabeths Hospital are non-residents of the District of Columbia, total admissions and resident patient rates per 100,000 population are computed only for residents of the District of Columbia. District residents include 1,984 total admissions and 4,682 resident patients end of year.
- I/ Georgia: Southwestern State Hospital opened during fiscal year 1967; the following data were not included in the table: deaths (1), resident patients at end of year (406), personnel (511), maintenance (8,950,000) and average daily (254).
- 8/ Louisiana: Data for admission categories are unavailable. Estimates based on 1966 reported data.
- 9/ Maine: Pineland Hospital and Training Center is a dual purpose institution. Only data pertaining to the mentally ill patients are reported here.
- 10/ Maryland: Data collected for only the classifications "First Admission" and "Readmission".
- 11/ Massachusetts:Lowell Mental Health Center average daily consus is unavailable. Therefore, in computing daily expenditures per resident patient, \$276,126 should be excluded from the total amount.
- 12/ Minnesota: Data for resident patients at the end of the year include six mentally ill patients receiving tuberculosis treatment at Glen Lake Sanitarium.
- 13/ New Jersey: Personnel and maintenance expenditures were reported for the calendar year 1966.
- 14/ New York: Data cover fiscal year ending March 31, 1967.
 Personnel data include Beacon Institute for Defective Delinquents for the mentally retarded which is connected with the Matteawan State Hospital. Maintenance expenditures include Bronx Wental Retardation Division of the Bronx State Hospital. Therefore, these data are an overestimate.

- 15/ Ohio: Includes data for mentally ill patients at the following dual purpose institutions: Apple Creek State Hospital, Cambridge State Hospital and Springuree Mospital. Does not include personnel and maintenance expenditure data for Apple Creek State Hospital and, therefore, the maintenance expenditure ratios for Ohio exclude this facility. (26 patients under treatment and 27 average daily patients were reported,) At Cambridge and Springview, although patient data pertain only to the mentally ill, personnel and maintenance data pertain to all patients. Ohillicothe Psychiatric Crimonology institute accepted first transfer patients May 9, 1967; the following data were not included in the table: resident patients at end of year (15), personnel (31) and maintenance \$38,355.
- Pennsylvania: Western State School and Hospital is a dual purpose institution. Only data pertaining to the mentally ill patients are reported here. Data on personnel and maintenance expenditures are unavailable and, therefore, the maintenance expenditure ratios for Pennsylvania exclude Western State School and Hospital (Western State School and Hospital reported 36 patients under treatment and 42 average daily patients.)
- 17/ Rhode Island: A major reorganization of services within the Rhode Island Medical Center produced unusually large changes in the data for some of the movement categories compared with those for previous years.
- 18/ Tennessee: The count of admissions includes 716 admissions who became inpatients during the year, having been outpatients or in partial hospitalization programs previously in the same hospital.
- 19/ Texas: Data cover fiscal year ending August 31, 1967.
- 20/ Wisconsin: Wisconsin Diagnostic Center operations were discontinued. Resident patients and personnel employed at end of the year were not reported.
- 21/ Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- 22/ Per patient under treatment maintenance expenditures are based on the patients under treatment (resident patients beginning of year plus total admissions) for hospitals reporting expenditures.
- 23/ Admission and resident patient rates are per 100,000 estimated civilian population. Source: U. S. Bureau of the Census, <u>Current Population Reports</u>, Series P-25, No. 380, provisional estimate for 1967.
- 24/ Average resident patient rates are based on the average of the beginning and end of year resident patient population.
 - Symbols Used: * Indicates data which are estimates or include estimates.
 - --- Data not available.



U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
SURVEY AND REPORTS SECTION
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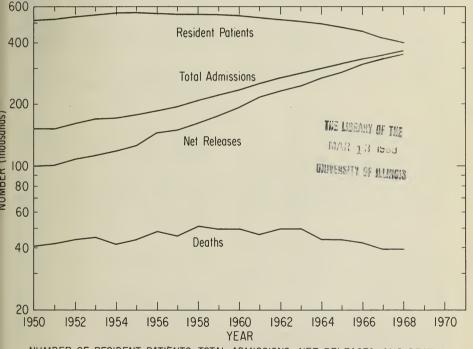
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CURRENT FACILITY REPORTS

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service, National Institute of Mental Health

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA STATE AND COUNTY MENTAL HOSPITALS UNITED STATES July 1, 1967 - June 30, 1968



NUMBER OF RESIDENT PATIENTS, TOTAL ADMISSIONS, NET RELEASES, AND DEATHS, STATE AND COUNTY MENTAL HOSPITALS, UNITED STATES, 1950-1968

Since the passage of the National Mental Health Act by Congress in 1946, the National Institute of Mental Health has been responsible for collecting and publishing data on the hospitalized mentally ill in the United States -- data necessary to answer requests from members of Congress, State legislators, project planners, hospital administrators and other persons interested in the field of mental illness. These data are extremely useful, for example, in planning for facilities and services, research and training, and legislation and financing. In an effort to provide current data, the provisional survey statistics tabulated in these Mental Health Statistics-Current Facility Reports (Series MHB-H) are collected and published annuall y for certain patient movement and administrative categories, by State, for the State and county mental hospitals. Similar data are county mental hospitals. Similar data are published for the Public Institutions for the Mentally Retarded (Series MHB-I) and Outpatient Psychiatric Clinics (Series MHB-J).

As these data are provisional, they are subject to some change.Data in greater detail -- admissions with no prior psychiatric inpatient experience and resident patients by age, sex and mental disorder; person ne 1 by occupation; maintenance expenditure by type -- will appear in other NIMH publications.

Similar data for patients in private mental hospitals, general hospitals with psychiatric services and outpatient psychiatric clinics are available in other publications of the National Institute of Mental Health.

Trends in certain patient movement categories for public mental hospitals are depicted graphically for the years 1950 - 1968 on the cover. These trends, as well as others, are indicated numerically for the years 1963-1968 in Table 1 and include estimates for under-reporting wherever possible. These totals, which are the most complete available, supersede totals published in prior reports. Also shown in Table 1 are the same data expressed as index numbers with 1963 used as the base year. Thus, percent change since 1963 can be read directly from Table 1, with increases being numbers greater than 100 and decreases being numbers less than 100. For instance, the 1964 index number for admissions is 105.6, this means that admissions in that year were 5.6 percent greater than 1963 admissions. An index number shows the percent change between a specific year and the base period. It does not indicate percent change between years other than the base year.

Table 2 shows detailed patient movement and administrative data for each State Definitions of terms used in this report are given in Section III.

II. HIGHLIGHTS

For the 13th consecutive year, the resident patient population in the State and county mental hospitals has decreased. As of June 30, 1988, the number of resident patients was 400,681, a decrease of about six percent over the figure for the previous year This is about the same percentage decrease that was experienced between the years 1966 and 1967. Prior to 1956, the trend had been one of increasing numbers of resident patients.

The number of net releases has continued to climb — a trend which began in the mid 1940's. In 13 years (1955-1968), the number has almost tripled. In 1968, there were 351,461 net releases as compared with 126,498 in 1955. Since 1963, the number of net releases per 1,000 average resident patients has almost doubled.

Along with increasing numbers of net releases and decreasing numbers of resident patients, the number of total admissions has increased steadily, continuing another trend which began in the mid 1940's. In 1968, the the number of admissions was approximately 365,455. This has resulted in a 1968 admission rate of 186 patients per 100,000 civilian population, compared with 110 in 1955.

The number of deaths in the hospitals has been decreasing slowly over the last several years, while the rate per 1,000 resident patients has remained around 91. However, for 1968 the number of deaths per 1,000 resident patients increased to 95.9, almost equal to the 1963 rate.

The ratio of personnel per patients continued to increase. In 1968 there was one full-time employee for every 1.9 patients.

The maintenance expenditures for the care of these patients have also greatly increased reaching over one and a half billion dollars in 1968. Converting these data into ratios, in 1968, \$5.45 was spent each day per patient under treatment as compared with \$2.33 in 1955.

TABLE 1

RECENT TRENDS OF PATIENT MOVEMENT AND ADMINISTRATIVE DATA, STATE AND COUNTY MENTAL HOSPITALS

UNITED STATES, 1963 - 1968*

1968	365,455 351,461 39,677 400,681	217,128	\$1,577,631,758	5,851.49	1,996,11
1967	348,561 335,737 39,608 426,009	218,948	\$1,415,480,302	5,226.05	1,768.08
1966	527,014 508,656 42,753 452,273	206,781	\$1,300,380,295	2,810,31	1,618,15
1965	314,027 285,760 43,964 475,202	204,879	\$1,204,345,256	2,503.99	1,499.75
1964	299,561 268,616 44,824 490,449	202,614	\$1,144,024,206	2,304.63	1,423,11
1963	283,591 245,745 49,052 504,604	195,356	\$1,081,537,167	2,131,49	1,352.93
item	All Admissions Net Releases Deaths in Hospital Resident Patients End of Year	Personnel (full time) at End of Year	Maintenance Expenditures Per Resident Patient	Per Year Per Day Per Day under Treatment	Per Day

INDEX NUMBERS

128.9	143.0	6.08	79,4	111.1	145.9	179.8	179.3	147.5	146.9
122.9	136,6	80.7	84.4	112,1	130,9	151,4	151,4	130.7	130,5
115.3	125.6	87.2	9.68	105.8	120.2	131,8	131.8	119.6	119.4
110.7	116.3	9.68	94.2	104.9	111.4	117.5	117.5	110.9	110.8
105.6	109.3	91.4	97.2	103.7	105,8	108,1	107.9	105.2	104.9
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100,0
All Admissions	Net Releases	Deaths in Hospital	Resident Patients End of Year	Personnel (full time) at End of Year	Maintenance Expenditures Per Resident Patient	Per Year	Per Day	Per Patient under Treatment Per Year	Per Day

^{*}These data include estimates for underreporting wherever possible.

TABLE 2

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, JULY 1, 1967 - JUNE 30, 1968

STATE AND COUNTY MENTAL HOSPITALS

PATIENT MOVEMENT DATA

	Number Resident Admissions (excluding transfers) Net Deaths								
STATE Hos	of Pat	sident tients ginning f Year	Total	No Prior Psychiatric Inpatient Experience	With Prior Admission to Hospital in Same System	All Other	Releases Alive from Hospital	Deaths in Hospital	Resident Patients End of Year
United States 31	12 42	26,364	365,455	1/144,566	2/125,909	1/46,876	351,461	39,677	400,681
Alaska Arizona Arkansas	1 1 2	7,720 203 1,101 1,940 22,108	3,984 313 1,100 2,691 32,471	1,881 173 880* 1,203 13,206	1,177 120 220* 1,191 15,383	926 20 0 297 3,882	3,410 349 977 2,798 34,493	595 3 96 166 1,148	7,699 164 1,128 1,667 18,938
Connecticut ⁵ Delaware Dist. of Columbia	2	1,844 6,662 1,384 5,658 9,905	3,169 12,179 1,358 3,910 5,037	1,535 4,712 842 1,233* 2,262	657 6,631* 467 1,162* 1,660	977 836* 49 1,515* 1,115	3,237 12,032 1,179 3,638 4,271	135 709 167 453 1,068	1,641 6,100 1,396 5,477 9,603
Hawaii Idaho Illinois ⁸ 2	1 2 30 2	11,128 662 691 24,799 10,659	7,609 537 869 24,622 4,623	5,715 151* 7,761 2,234*	1,894 230 13,980 1,494*	0 156* 2,881 895*	7,016 568* 844 25,264 4,566	912 36 51 2,596 776	10,809 595* 633 21,561 9,940
Kansas Kentucky Louisiana Maine <u>9</u> /	3 4 3	1,720 2,386 4,374 5,627 2,828	5,469 3,326 6,154 7,012 2,016	2,342 1,869 2,514 3,545* 1,082	2,466 1,041 2,955 3,467* 701	661 416 685 0 233	5,617 3,490 6,074 7,186 1,704	123 121 553 318 344	1,449 2,101 3,901 5,135 2,796
Massachusetts 1 Michigan 1 Minnesota	14 1 10 1 8	8,235 15,710 16,503 5,103 5,157	12,204 13,941 10,011 5,933* 4,204	5,209 8,815 4,870 2,375	6,995 5,126 0 2,869* 1,336	0 0 5,141 493	11,323 12,859 10,332 6,414 3,880	929 1,697 888 378 358	7,941 15,095 15,294 4,244 5,123
Montana Nebraska Nevada	1	9,008 1,410 2,729 485 2,226	9,648 1,603 1,979 928 1,795	5,548* 855 1,015 449 1,008	3,349* 0 720 358 117	751* 748 244 121 670	10,387 1,496 2,446 937 1,657	781 141 203 25 206	7,488 1,376 2,059 451 2,158
New Mexico New York <u>12</u> / North Carolina North Dakota	1 25 8	17,972 635 81,375 8,091 1,291	13,587 1,511 44,171 14,111 1,377	6,372 509 6,705 562	6,274 426 7,406 573	941 576 0 242	12,566 1,439 36,854 13,510 1,380	2,231 61 9,684 1,033 80	16,762 646 79,008 8,259 1,208
Oklahoma Oregon Pennsylvania 14/ 2	3 3	20,931 3,985 2,406 33,207 1,998	20,477 5,801 4,641 9,012 3,965	9,401 2,646 2,206 4,116 856	8,941* 2,186 1,803 2,349 1,255	2,135* 969 632 2,547 1,854	18,688 5,702 4,605 8,944 4,000	1,854 252 223 2,482 16	20,866 3,832 2,219 30,793 1,947
South Dakota Tennessee <u>16</u> / Texas <u>17</u> /	1 5	6,108 1,450 7,028 15,035 515	4,007 1,408 9,646 14,920 1,070	1,297 778 4,385* 6,863 417	1,531 626 4,230* 806 395	1,179 4 1,031* 7,251 258	3,589 1,382 9,043 14,440 1,008	630 134 648 1,280 35	5,896 1,342 6,983 14,235 542
Virginia <u>18</u> / Washington West Virginia	7 1 3 5	1,117 11,330 3,186 4,832 12,809	816 7,602 3,774 3,390 8,933	427 3,630 1,633* 1,598 4,496	342 2,143 1,439* 1,553 3,767	47 1,829 702* 239 670	693 6,604 3,819 3,200 9,046	161 1,235 211 428 998	1,079 11,371 2,930 4,594 11,698
Wyoming	1	498	541	385	98	58	505	25	509

Note: Refer to page 7 for footnotes

TABLE 2 (Continued)

PROVISIONAL PATIENT MOVEMENT AND ADMINISTRATIVE DATA: UNITED STATES, JULY 1,1967 - JUNE 30, 1968

STATE AND COUNTY MENTAL HOSPITALS

PERSONNEL AND FINANCIAL DATA

STATE		Average Daily	Patients	Total	Mainte	nance Expenditur	es
Patient Population Treatment End of Year Amount Per Resident Population Patient Population Patient Population Patient	STATE	Resident		Full-Time	Total	Daily Expe	nditures
		Patient	under	Personnel			
Alabama		Population	Treatment	End of Year	Amount		
Alaska 172	United States	412,818	791,822	217,128	\$1,577,631,758	\$10.47	\$5.45
Arkanasa 1,088 2,201 742 5,899,585 14,80 7,32 Arkanasa 1,805 4,851 1,554 9,204,111 15,95	Alabama3/	7,685	11,704	2,234	15,955,007		
Arkanasa		172			2,270,200*		
Colorado	Automore	1,805	4.631		9,204,111		5.43
Connecticut	California ⁴	19,608	54,579	12,334	116,064,544*	16.17*	5,81*
Delaware 1,865 2,742 32.5 5,812,941 11,24 5,5.59 Dist. of Columbia 6	Colorado 5/	1,757	5,013		18,501,488*	28.77*	
Dist G Columbia	Connecticut=	6,507	18,841	4,066	5 612 941*	14,06*	
Florida	Dist. of Columbia	5,438	9,568	3.975	32,092,895		
Table Cast	Florida	9,960	14,942	4,796	26,522,398	7.28	4.85
Illinois S 15,80	Georgia ⁷ /	10,961	18,737	4,518	34,657,431		
	111		1,199		3,674,094		
Indiana		23,394	49,421	15,732	136,845,790	15.98	7,57
Kansas (2,258 5,712 2,244 14,610,262 17,68 6.99 (Anticky 4,143 10,528 2,245 14,600,661 9,65 3,79 (Anticky 4),143 10,528 2,245 14,600,661 9,65 3,79 (Anticky 4),487 1,145 7,916,094* 7,69* 4,46* (Anticky 4),487 1,145 7,916,094* 7,69* 4,46* (Anticky 4),487 1,145 7,916,094* 7,69* 4,46* (Anticky 4),497 1,495 11,49* (Anticky 4),497 1,495 11,49* (Anticky 4),497 1,495 11,49* (Anticky 4),497 11,49* (Anticky 4),497 1,495 11,49* (Anticky 4),497 1,49	Indiana	10,414	15,282	5,577	40,046,355	10.51	7,16
Louisiana S,391 12,659 2,884 19,060,659 9,66 4.12 Maine 9/ 7.65* 4.26* 4.46* Maryland 10/ 7.795 20,459 4,193 32,248,574 11.30 4.51 Massachusetts 15,354 29,651 8,462 66,187,145 11.79 6.10 Massachusetts 15,354 29,651 8,462 66,187,145 11.79 6.10 Michigan 11/ 4,740 11,056* 2,957 24,953,757 14.25 6.11* Miresota 4,740 11,056* 2,957 24,953,757 14.25 6.11* Mississippi 5,165 9,561 1,972 9,086,598 4.81 2,65\$ Missouri 8,229 18,656 6,244 41,432,502 13.76 6.07 Montana 1,561 3,013 617 4,482,415 8.89 4.07 Metraska 2,349 4,708 2,485 14,102,995 16.40 8.18 New January 1,258 4,021 984 7,281,105 9,50 4,85 14,102,995 16.40 8.18 New January 1,278 2,188 4,021 984 7,281,105 9,50 4,85 14,102,995 16.40 8.18 New Jersey 17,320 31,559 9,500 64,051,258 10,10 5,55 New Mork 12/ 80,575* 125,546 37,643 254,010,228 8,72* 5,59 North Carolina 8,468 22,802 4,254 27,455,953 8,85 3,29 North Carolina 8,468 22,802 4,254 27,455,953 8,85 3,29 North Dakota 1,274 2,668 44,24 47,47,908 9,75 4.66 0h.15/ 2,293 7,047 1,276 10,241,715 12,20 3,97 8 North Carolina 9,365 9,786 41,408 8,858 65,544,709 8,62 4,35 12,558 10,066 9,115,655 12,258 12,558 12,558 12,558 14,209 8,62 4,35 12,558 12,55		1,548	7,189	1,906	14,169,121		
Louisiana S,391 12,659 2,884 19,060,659 9,66 4.12 Maine 9/ 7.65* 4.26* 4.46* Maryland 10/ 7.795 20,459 4,193 32,248,574 11.30 4.51 Massachusetts 15,354 29,651 8,462 66,187,145 11.79 6.10 Massachusetts 15,354 29,651 8,462 66,187,145 11.79 6.10 Michigan 11/ 4,740 11,056* 2,957 24,953,757 14.25 6.11* Miresota 4,740 11,056* 2,957 24,953,757 14.25 6.11* Mississippi 5,165 9,561 1,972 9,086,598 4.81 2,65\$ Missouri 8,229 18,656 6,244 41,432,502 13.76 6.07 Montana 1,561 3,013 617 4,482,415 8.89 4.07 Metraska 2,349 4,708 2,485 14,102,995 16.40 8.18 New January 1,258 4,021 984 7,281,105 9,50 4,85 14,102,995 16.40 8.18 New January 1,278 2,188 4,021 984 7,281,105 9,50 4,85 14,102,995 16.40 8.18 New Jersey 17,320 31,559 9,500 64,051,258 10,10 5,55 New Mork 12/ 80,575* 125,546 37,643 254,010,228 8,72* 5,59 North Carolina 8,468 22,802 4,254 27,455,953 8,85 3,29 North Carolina 8,468 22,802 4,254 27,455,953 8,85 3,29 North Dakota 1,274 2,668 44,24 47,47,908 9,75 4.66 0h.15/ 2,293 7,047 1,276 10,241,715 12,20 3,97 8 North Carolina 9,365 9,786 41,408 8,858 65,544,709 8,62 4,35 12,558 10,066 9,115,655 12,258 12,558 12,558 12,558 14,209 8,62 4,35 12,558 12,55		2,258	5,712	2,244	14,610,282		
Maryland 10	Louisiana	5,391	12,639	2,894	19,060,639	9,66	4.12
Massachusetts		2,813	4,847	1,145	7,916,094*	7.69*	4.46*
Massachusetts	Maryland 10/	7,795		4,193			
Minesotat	Wassachusetts	15,334	29,651	8,452		11.79	
Mississippi 5,163 9,661 1,972 9,086,598 4,81 2,65 Missouri 8,229 18,656 6,244 41,432,502 13,76 6.07 Mortana 1,381 3,013 617 4,495,415 8,89 4,07 Nevada 2,549 4,708 2,485 14,102,995 16,40 8,18 New Hampshire 2,138 4,021 984 7,281,105 9,50 4,95 New Jersey 17,320 31,559 9,590 64,051,258 10,10 5,55 New Mortico 606 2,146 507 3,064,169 15,22 3,90 New York 12/b 80,575* 125,546 37,643 254,010,328 8,72* 5,96 North Dakota 1,274 2,668 6,44 4,247,35,953 8,85 3,29 North Dakota 1,274 2,668 6,44 4,647,908 9,75 4,66 Chi 13/b 20,796 41,408 8,958 65,544,709 8,62	Minnesota 11	4,740	11,036*	2,937	24,693,757		6.11*
Montana	Mississippi	5,163	9,361	1,972	9,086,598	4.81	2.65
Nebraska 2,549 4,708 2,485 14,102,995 16,40 8,18		8,229	18,656	6,244	41,432,502		
New Age		2,349	4,708		14,102,995		
New Jersey		456	1,413	296	2,419,643		
North Carolina	· ·		· ·				
North Carolina	New Jersey	17,320	31,559	9,590	64,051,258		
North Dakota	New York 12/	80,575*	125,546	37,643	254,010,328	8.72*	5,59
Oh 13/Oh 10 20,796 41,408 8,938 65,544,709 8,62 4,33 0k lahoma 3,936 9,766 2,865 14,296,425 9,92 3,99 0 regon 2,293 7,047 1,276 10,241,713 12,20 3,99 Pennsylvania 1/2 32,353 42,219 15,434 117,027,587 9,90 7,58 Rhode IslandIs/ 2,017 5,963 1,066 9,115,655 12,255* 4.18* South Carolina 5,994 10,115 2,145 13,560,929 6,08 5,61 South Dakota 1,400 2,858 226 4,732,575 9,24 4,52 Tennessee 16/ 7,033 16,674 3,813 20,072,985 7,80 5,29 Texas 17// Utah 557 1,585 448 2,601,764 14,26 4,83 Vermont 18// Virginia 11,394 18,982 4,676 25,974,045 6,09 3,67 West Virginia 4,686 8,222 2,000 19,		8,466	22,802	4,234	27,435,933		
Oklahoma 5,956 9,766 2,865 14,296,425 9,92 3,99 Oregon 2,283 7,047 1,276 10,241,715 12,20 3,97 Pennsylvania 32,353 42,219 15,454 117,027,867 9,90 7,58 Rhode IslandI5/ 2,017 5,963 1,066 9,115,655 12,358 4.18* South Carclina 5,994 10,115 2,145 13,560,929 6,03 5,61 South Dakota 1,400 2,858 286 4,732,575 9,24 4,52 Tennessee 16/ 7,033 16,674 3,813 20,072,985 7,80 5,29 Tennessee 16/ 7,033 14,651 29,955 6,050 36,322,359 6,77 3.31 Utah 557 1,585 448 2,201,724 14,26 4,83 Vermont 18/ 1,112 1,955 589 3,711,517 9.12 5,25 Virginia 11,354 18,952 4,676 25,974,045 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3.936	9.786		14.296.423		
Rhode Island 15		2,293	7,047	1,276	10,241,713	12,20	3,97
South Carolina 5,994 10,115 2,145 15,560,929 6,09 3,61	Pennsylvania	32,333	42,219	15,434	117,027,587		
South Dakota	_						
Tennessee 16		1,400	2,858	826	4,732,575		
Texas T/Y 14,651 29,955 6,050 36,328,3559 6,77 3.51	Tennessee 16/	7.033	16.674	3,813	20,072,985		
Vermont 18/ 1,112 1,955 589 3,711,817 9.12 5,25 Virginia 8/ 11,394 18,932 4,676 25,974,045 6,09 3,67 Washington 3,098 6,960 2,280 19,392,305 17,61 7,81 West Virginia 4,696 8,222 2,040 10,634,657 6,30 3,60 Wisconsin 12,405 21,742 5,521* 48,992,000* 10.79* 6,18*		14,651	29,955		36,328,359		
Virginia 11,394 18,932 4,676 25,974,045 6,08 3,67 Ashington 3,098 6,960 2,280 19,992,305 17,61 7,81 West Virginia 4,698 8,222 2,040 10,684,657 6,30 3,60 Wisconsin 12,405 21,742 5,521* 48,992,000* 10,79* 6,18*							
Washington 3,096 6,960 2,280 19,892,005 17.61 7.91 West Virginia 4,696 8,222 2,040 10,884,657 6.50 3.60 Wisconsin 12,403 21,742 5,521* 48,992,000* 10,79* 6.16*	Vermont 18/	1,112	1,953	589 4.676	3,711,317 25,974,045		
Wisconsin 12,403 21,742 5,521* 48,992,000* 10.79* 6.16*	Washington	3,086	6,960	2,280	19,892,305	17.61	7,81
			8,222	2,040	10,834,657	6.30 10.79*	3,60 6.16*
Tyoming 519 1,039 306 1,959,596 10,32 5,15							
	myom1 ng	519	1,059	506	1,959,596	10.52	5,15

Refer to page 7 for footnotes

United States Alabama 3/ Alaska Arizona Arkansas 4/ Colorado Connecticut 5/ Delaware Dist, of Columbia 6/ Florida Georgia 1/ Hawaii Idaho Illinois 8/ Indiana Iowa Kansas Kentucky Louisiana Maine 9/ Maryland 19/ Massachusetts Michigan	Total Admissions 185.9 113.2 130.4	Resident Patients at End of Year 202.8	Total Admissions	Net Releases Alive from Hospital	Deaths in Hospital	per 1,000 Tota
Alabama 3/ Alabama 3/ Alaska Arizona Arkansaa California 4/ Colorado Connecticut 5/ Delaware Dist of Columbia 5/ Florida Georgia 7/ Hawa ii Idaho Illinois 8/ Indiana Iowa Kansas Kentucky Louisiana Maine 3/ Maryland 10/ Massachusetts Michigan	185.9	End of Year	Admissions			
Alabama 3/ Alabama 3/ Alaska Arizona Arkansaa California 4/ Colorado Connecticut 5/ Delaware Dist of Columbia 5/ Florida Georgia 7/ Hawa ii Idaho Illinois 8/ Indiana Iowa Kansas Kentucky Louisiana Maine 3/ Maryland 10/ Massachusetts Michigan	113.2				Hospital	Admission
Alaska Arizona Arkanasa California Colorado Connecticut Delaware Dist, of Columbia Florida Georgia J/ Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine g/ Maryland Maryland Maryland Massachusetts Michigan			883.8	849.9	95.9	961.7
Alaska Arizona Arkansas California Colorado Connecticut Dist, of Columbia Florida Georgia J/ Hawaii Iddaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine g/ Maryland Massachusetts Michigan		218,1	516.7	442.3	77.2	855.9
Arkansas California 4/ Colorado Connecticut 5/ Delaware Dist, of Columbia 8/ Florida Georgia 7/ Hawaii Idaho Illinois 8/ Indiana Iowa Iowa Kansas Kentucky Louisiana Maine 9/ Maryland 19/ Massachusetts Michigan		67.5	1,701.1	1,896.7	16.3	1,115.0
California **/ Colorado Connecticut 5/ Delaware Dist. of Columbia \$/ Florida Georgia **I/ Hawaii Idaho Illinois **Indiana Iowa Kanaas Kentucky Louisiana Maine 9/ Maryland 9/ Massachusetts Michigan	67.6	68.9	986.5	876.2	86.1 92.0	888.2
Colorado Connecticut 5/ Delaware Dist, of Columbia 8/ Florida Georgia 7/ Hawaii Idaho Illinois 8/ Illinois 8/ Illinois 8/ Louisiana Kansas Kentucky Louisiana Maine 9/ Maryland 19/ Maryland 19/ Massachusetts Michigan	135.0 173.8	83.3 100.5	1,491.7 1,582.2	1,551.0 1,680.7	55.9	1,039.8 1,062.3
Delaware Dist, of Columbia 6/ Florida Georgia 7/ Hawaii Idaho Illinois 9/ Indiana Iowa Kansas Kentucky Louisiana Maine 9/ Maryland 19/ Massachusetts Michigan	159.9	82.4	1,818.1	1,857.1	77.5	1,021.5
Delaware Dist, of Columbia 6/ Florida Georgia 7/ Hawaii Idaho Illinois 9/ Indiana Iowa Kansas Kentucky Louisiana Maine 9/ Maryland 19/ Massachusetts Michigan	416.4	207.0	1,908.6	1,885.6	111.1	987.9
Florida Georgia I/ Hawaii Idaho Illinois S/ Indiana Iowa Kansas Kentucky Louisiana Maine g/ Maryland I/ Massachusetts Michigan	261.2	266.4	977.0	848,2	120.1	868,2
Georgia 7/ Hawaii Idaho Illinois 8/ Indiana Iowa Kansas Kentucky Louisiana Maine 9/ Maryland ^{19/} Massachusetts Michigan	381.5	590.8	702.2	653.4	81.4	930.4 847.9
Hawaii Idaho Illinois B/ Illinois B/ Illinois B/ Illinois B/ Illinois B/ Illinois B/ Kansas Kansas Kansas Kantucky Louisiana Maine B/ Maryland B/ Massachusetts Michigan	83.9	158,5	516.4	437.9	109.5	
Idaho B/ Illinois B/ Indiana Iowa Kansas Kentucky Louisiana Maine B/ Maryland B/ Massachusetts Michigan	171.4 75.1	241.8 82.1*	693.7 853.7	639.6 903.0*	83.1 57.2	922.1
Illinois E/ Indiana Lowa Kansas Kentucky Louisiana Maine 9/ Maryland ^{19/} Massachusetts Michigan	124.1	90.3	1,312.7	1,274.9	77.0	971.2
logiana lowa Kansas Kentucky Louisiana Maine 9/ Maryland ^{19/} Massachusetts Michigan	226.6	197.5	1,062.2	1,089.9	112.0	1,026,1
Kansas Kentucky Louisiana Maine <u>9</u> / Maryland ¹² / Massachusetts Michigan	91.8	196.5	448.8	443.3	75.3	987.7
Kentucky Louisiana Maine <u>9</u> / Maryland ¹ C/ Massachusetts Michigan	199,1	52.8	3,450.5	3,543.8	77.6	1,027.1
Louisiana Maine <u>9</u> / Maryland ¹⁰ / Massachusetts Michigan	146.8	92.5	1,482.2	1,555.3	53.9	1,049.3
Maine <u>9</u> / Maryland ^{19/} Massachusetts Michigan	194.7 191.7	123.1 139.3	1,487.2 1,303.1	1,467.9	133.6 59.1	987.0
Massachusetts Michigan	208.5	289.4	716.9	606.0	122.3	845.2
Massachusetts Michigan	334.9	215.8	1,508,9	1,400.0	114.9	927.8
Michigan	258.7	279.6	905.1	834.8	110.2	922.4
	115.6	175.4	629.7	649.9	55.9	103.2
Minnesota 11/	163.4*	116.6	1,269.4*	1,372.3	80.9 69.6	1,081.1
Mississippi	181.4	221.0	817.9	754.9		
Missouri Montana	211.2 233.7	163.3 200.9	1,169.7	1,259.3	94.7	1,076.6
Nebraska	138.8	144.8	826.6	1,021.7	84.8	1,236.0
Nevada	211.9	101.8	1,982.9	2,002.1	53.4	1,009.7
New Hampshire	259.4	309.2	818.9	755.9	94.0	923,1
New Jersey	195,2	239.3	782.3	723.6	128.5	924.9
New Mexico	151.6	64.7 437.1	2,357.3 550.8	2,244.9 459.6	95,2 120,8	952.3 834.3
New York <u>12</u> / North Carolina	245.1 282.7	457.1 164.6	1,665.0	1,594.1	121.9	957.4
North Dakota	223.9	197.4	1,101.6	1,104.0	64.0	1,002.2
Ohio 13/	194.6	197.5	979.8	894.2	88.7	912.6
Oklahoma	234.9	155.0	1,484.0	1,458.7	64.5	982.9
Oregon 14/	233.2	110.7	2,006.5	1,990.9	96.4 77.6	992,2
Pennsylvania <u>14</u> / Rhode Island <u>15</u> /	77.2 450.6	263.3 220.7	281.6	2,027.4	8.1	1,008.8
South Carolina	154.1	225,7	667.6	598.0	105.0	895.7
South Dakota	214.3	206.1	1,008.6	990.0	96.0	981.5
Tennessee 16/	245.8	177.2	1,376.8	1,290.8	92.5	937.5
Texas 17/ Utah	139.3 104.6	132.1 52.7	1,019.5	986.7 1,905.5	87.5 66.2	967.8 942.1
Vermont Virginia 18/	194.3	255.7	743.2	631.1 581.8	146.6 108.8	849.3 868.7
Virginia — Washington	173.1 118.8	257.7 91.4	669.7	1,248,9	69.0	1,011.9
West Virginia						944.0
Wisconsin	187.5	254.5	8,008	679.0	90.8	
Wyoming	187.5 212.7	254.5 277.8	800.8 729.0	679.0 738.2	90.8	1,012.6
ryoming						

Refer to page 7 for footnotes

- !/ Excludes Idaho, Minnesota and New York.
- 2/ Excludes Idaho and New York.
- Alabama: Data cover fiscal year ending September 30, 1968. Data & admission oxigories for Searcy Hospital are unavailable, Estimates shown are based on 1967 data.
- 4/ California: Personnel data includes filled positions authorized for care of mentally 111 and mentally retarded patients at De Witt and Patton State hospitals.
- 5/ Connecticut: Data for admissions with prior admission to hospitals in same State system and all other admissions are unavailable. Estimates shown are based on 1997 data.
- (b) District of Coloubus in the increase in admissions for 1888 is due to the closurg of the D. C. General Hospital Acute Psychiatric Department. All of these emergency causes were admitted to St. Elizabeths Hospital are concretified by the patients at St. Elizabeths Hospital are concretified to the patients at St. Elizabeths Hospital are concretified to the patients at St. Elizabeths emission canding the concretified to the patients at St. Elizabeths and missions and resident patient when per COLOGO population are treatment include SciOt total admissions and 4,667 resident patients at the end of the ear.
- 2) Georgia: Data for maintenance expenditures for the Georgia Mental Health Institute includes cost for care of outpatients as well as inpatients, therefore, this is an overestimate.
- B/ illinois: Data for resident patients exclude patients who were or "thme Visits", Maintenance expenditure data include the cost for outpatients, therefore, this is an overestimate.
- Warne: Pineland Hospital and Training Center is a dual purpose institution. Only data pertaining to the mentally ill are reported hare.
- 10/ Maryland: Data collected for only the classifications "First Admissions" and "Readmissions".
- 11/ Winnesota: Data for resident patients at beginning and end of year include six mentally ill patients receiving tuberculosis treatment at Gipe Lake State Sanatorium.
- 12) New York: Data cover fracal year ending Nerch 51, 1989. Data for fall the control of the con

- (30) Ohos Includes data for ementally III patients at the following data purpose institutions: Apple Orees State Bospital, admiring and maintenance superditure data for Apple Orees State Bospital and State and maintenance superditure data for Apple Orees State Bospital and Apple Orees State Bospital Apple Orees
- 14. Pensylvaniai Rester State School and Hoppital is a dial purpose institutio. Only data performed to the enskilly III put that is a reprised here. Jaka for personal and maintenance opportations are pensylvania washide org. The minimal response diversities from pensylvania washide displacement treatment and 36 average.
- 15/ Rhode Island: Data for the admission categories for the Charles V. Chapin Mappital are unwailable, therefore, all admissions for this hoppital are included in "all other admissions".
- 16 Tennessee: Data for resident patents, adenssions, deaths and sereage daily include partial hospitalization of inght care patients, the count of admissions includes 644 admissions who became imputents of during the year, having been outpatients or in day care previously in the same hospital.
- 1/ Texas: Data cover fiscal year ending August 31, 1988. Data does not include the impatient unit at the Rio Grande State Center which opened in April 1988.
- 18/ Vignar Waintwance expenditure data for Morkent Vignaria Mental and and all hinst that and po where its State Sanatorium are unwaniable. Pradmont State Mospital opered this year, patients are educited only by transfer for on their State hospitals, threefore, the maintenance expenditure ratios for Virginia exclude 50° average daily patients. Bis operations under tentent and \$1,381,581,592 average daily patients, in these three facilities.
- 19. Per resident patient maintenance expenditures are based on the average daily resident patient population of hospitals reporting expenditures.
- 20/ Per patient under treatment maintenance expenditures are based on the patients under treatment (resident patients beginning of year plus total admissions) for hospitals reporting expenditures.
- 21/ Admission and resident patient rates are per 100,000 estimated civilian appulation. Source 10.75 buves of the Gensus. <u>Ourrant Population</u>, <u>Lian Reports</u> Series P.25, No. 405, provisional estimate for 1980.
- 22. Average resident patient rates are based on the average of the beginning and end of year resident patient population.
 Symbols Used: a Indicates data which are estimates or include estimates.

-- Data not available.

III. DESCRIPTION AND LIMITATIONS OF THE DATA

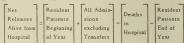
A. Patient Movement Data

The summary data presented in this report may be used to analyze the annual changes in year end populations of the state and county mental hospitals in terms of three categories of patient movement (admissions, net releases and deaths). These categories are defined as follows:

l. Admissions: This category includes three admission classifications. Admissions With No Prior Psychiatric

Inpatient Experience includes patients admitted to hospitals with no record of prior admission to any inpatient psychiatric facility either within or outside the state system. The state system is defined to include state and county mental hospitals and public institutions for the mentally retarded. This category replaces the former classification, first admissions, which was defined as "a patient who has not previously been admitted to a public or nonpublic hospital authorized for the treatment of mental disorders." The major difference between these two definitions lies in the area of psychiatric services in general hospitals. In using the first admission definition, some states did not consider prior psychiatric treatment in a general hospital as constituting a previous psychiatric admission. Under the present definition such cases are considered as having a prior admission to an inpatient psychiatric facility. Therefore, the number of admissions with no prior inpatient psychiatric experience will either be less than or equal to the number offirst admissions (old definition). Admissions With Prior Admission to Hospitals in Same State System are patients admitted to the hospital with a history of prior admission to a public mental hospital or a public institution for mentally retarded in the same state. All Other Admissions include patients admitted to the hospital with prior admission to other inpatient psychiatric facilities -- state psychiatric facilities in other states, Veterans Administration hospitals, private mental hospitals, private institutions for the mentally retarded, and any other inpatient psychiatric facilities (including psychiatric services in general hospitals) which are medical facilities accepting patients for screening and/or treatment of psychiatric disorders.

2. Net Releases Alive from Hospital The concept of "net release alive from hospital" takes into account movement of patients into and out of the hospital since this quantity is the number of placements on extramural care plus direct discharges from the hospitalless the number of returns from extramural care, all occurring during any one year. National data on placements and returns from extramural care are not available but net releases may be computed from less detailed movement data as:



Interpretation of net releases alive from hospital should be made with caution. This quantity is the net number of releases alive from the state hospital system and includes not only direct discharges to the community and placement on leave but also direct discharges to other inpatient facilities outside the state system such as Veterans Administration hospitals, nursing homes, boarding care homes, and mental hospitals in other states. The number of net releases is used as a measure of movement out of the hospital rather than the total number of discharges because many discharges occur while patients are already outside the hospital on extramural care. The number of net releases may be considered an estimate of the number of effective releases from the hospital under the assumption that subtracting returns from leave during the year removes only the short term visits, leaves, and escapes and retains the effective releases; i.e., those from which the patients did not return to the hospital within the time period covered.

- 3. Deaths in Hospital This category includes only deaths occurring to patients resident in the hospital and does not include deaths among patients on leave even though these patients are still on the hospital books.
- 4. Patient Movement Ratios per 100,000 Civilian Population The admission ratio measures the proportion of people coming under care during the year while the average daily resident patient ratio measures the average proportion of the population under care at any one time during the year.

5. Patient Movement Ratios per 1,000 Average Resident Patients These ratios relate the average resident population to three movement categories: Total admissions, Net releases and Deaths, thus providing indexes of the amount and type of patient movement activity that occurred during the year. It should be kept in mind that the ratios shown in this publication are based on totals and as such they have the limitations of totals since they are not standardized for such important variables as age, sex, diagnosis, and years of hospitalization. To illustrate how these ratios are descriptive of changes in resident patient populations, consider the following hypothetical example: Suppose that the resident patient popu-

lations in State A and State B each decreased by 0.6 percent (or 6 per 1,000). Considering only these data gives a limited and potentially misleading view of patient movement activity. However, now suppose that the patient movement ratios are computed to be the following:

Movement Category	State A	State B
Admissions	323.7	522.2
Net Releases Deaths	229 . 5 99 . 9	454.8 73.5

These ratios show that State B has much higher rates of patient movement into and out of the hospital than State A. While these ratios highlight areas of difference between the two states, conclusions based only on these ratios may be fallacious. The differences can be isolated further by analyzing the data in terms of the patient characteristics mentioned above (age, sex, diagnosis, and years of hospitalization). Even at this point, one cannot evaluate the relative efficacy of the two state mental hospital programs since differences in patient movement ratios between states may also be attributable to a great many other factors, such as policies and laws controlling admissions and release, the ways in which the mental hospitals are utilized by the communities they serve, the types of patients admitted, the various treatment programs within the hospitals, and the availability of various community facilities that can serve as adjuncts or alternatives to hospitalization. Since the reasons for interstate differences in these movement ratios are complex and vary considerably from hospital to hospital within and between

states, ratios constructed from gross movement data (i.e. state totals) can not be used to measure the therapeutic effectiveness of various hospital programs.

6. Ratio of Net Releases to 1,000 Admissions The ratio "net releases per 1,000 admissions" is a convenient index for summarizing the live net movement into and out of the hospital, For example, if the ratio is less than 100, there were more admissions than net releases. Note that this index does not relate net releases to admissions in the sense of a percent or rate because not all releases during a year derive from the admissions during that year. Some of these net releases occurred to patients with lengths of stay greater than one year, that is, patients admitted during some prior year.

B. Expenditure Ratios

The expenditure per average daily resident patient has been the most commonly used ratio for comparing mental hospital expenditures. Its major limitation is that it does not adequately take into account the number of admissions for which a large share of the expenditure is required. If the patient base is enlarged to include admissions during the year the resulting sum is the best available estimate of patients under treatment during the year. This quantity is actually defined as:

į	r "	ı	Resident		All Admis-	ı	Returns from Leave	٦
ŀ	Patients		Patient		sions	ı	among Patients on	1
ı	Under	=	Beginning	+	excluding	1	Leave Beginning	1
ı	Heatment		of Year		Transfers	П	Lof Year	1

The estimate, however, does not include the last category, Returns from Leave, since these data are not available nationally.

The ratio of expenditures to patients under treatment appears to be a more realistic measure, but it does not solve the problem completely. While a larger share of the expenditures is required for the care of admissions, the index weights both admissions and resident patients equally.

The expenditure figures and ratios are not necessarily expenditures by state agencies alone inasmuch as county expenditures for the care of patients in the mental hospitals are included for Maryland, Michigan, New Jersey, Tennessee and Wisconsin, the only states with county mental hospitals. County data have been included to insure

C. Interstate Variation

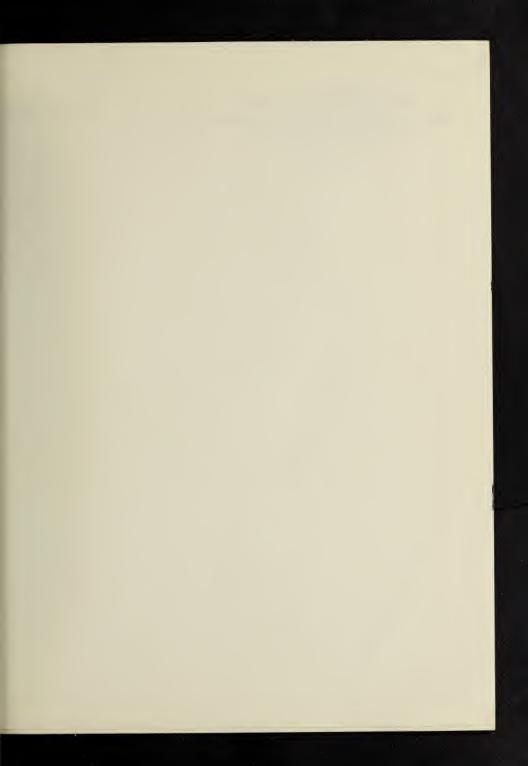
Considerable variation among states in patient movement, personnel, and expenditure data is indicated in Table 2.

Actual numbers are not comparable among states since they do not take into account differences in size of population. Therefore, ratios have been computed for several data categories.

For example, net releases and total admissions per 1,000 average resident patients show considerable variation, with net release rates ranging from 280 to 3,544 Rates of admission and resident patients end of year per 100,000 civilian population also vary considerably for State to State. In addition, a high of \$12,02 per patient under

treatment per day to a low of \$2.65 further points out the considerable variation existing among states.

However, as has been emphasized in Sections A4-A6, comparison of state ratios, while serving to highlight areas of differences, are limited. More detailed classifications of movement categories by such variables as age, sex, diagnosis and time on books are needed. Data on age, sex, and diagnosis as well as more detail on personnel and maintenance expenditures will be available in the near future. This detail will provide partial explanations of the gross differences noted in the above tables. Also, as mentioned previously, other factors such as policies and laws affecting admission and release of patients, other community treatment facilities, effectiveness of therapeutic programs, etc., must be evaluated to determine the extent of their influence on interstate variation.



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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